

WEEKLY WEATHER AND CROP BULLETIN

U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration,
National Weather Service

U.S. DEPARTMENT OF AGRICULTURE
National Agricultural Statistics Service and
World Agricultural Outlook Board

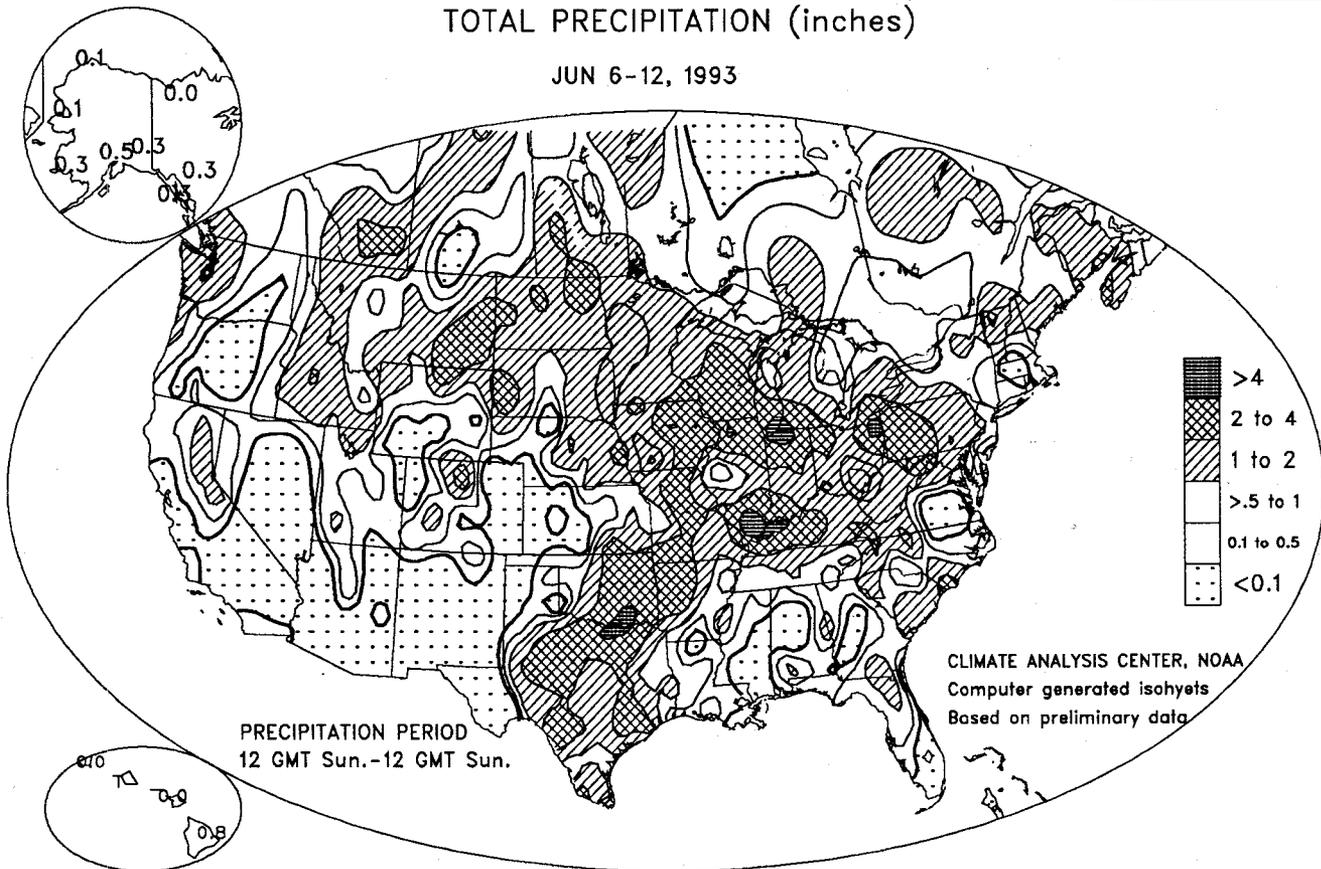
Volume 80, No. 24

Washington, D.C.

June 15, 1993

TOTAL PRECIPITATION (inches)

JUN 6-12, 1993



CLIMATE ANALYSIS CENTER, NOAA
Computer generated isohyets
Based on preliminary data

PRECIPITATION PERIOD
12 GMT Sun.-12 GMT Sun.

HIGHLIGHTS

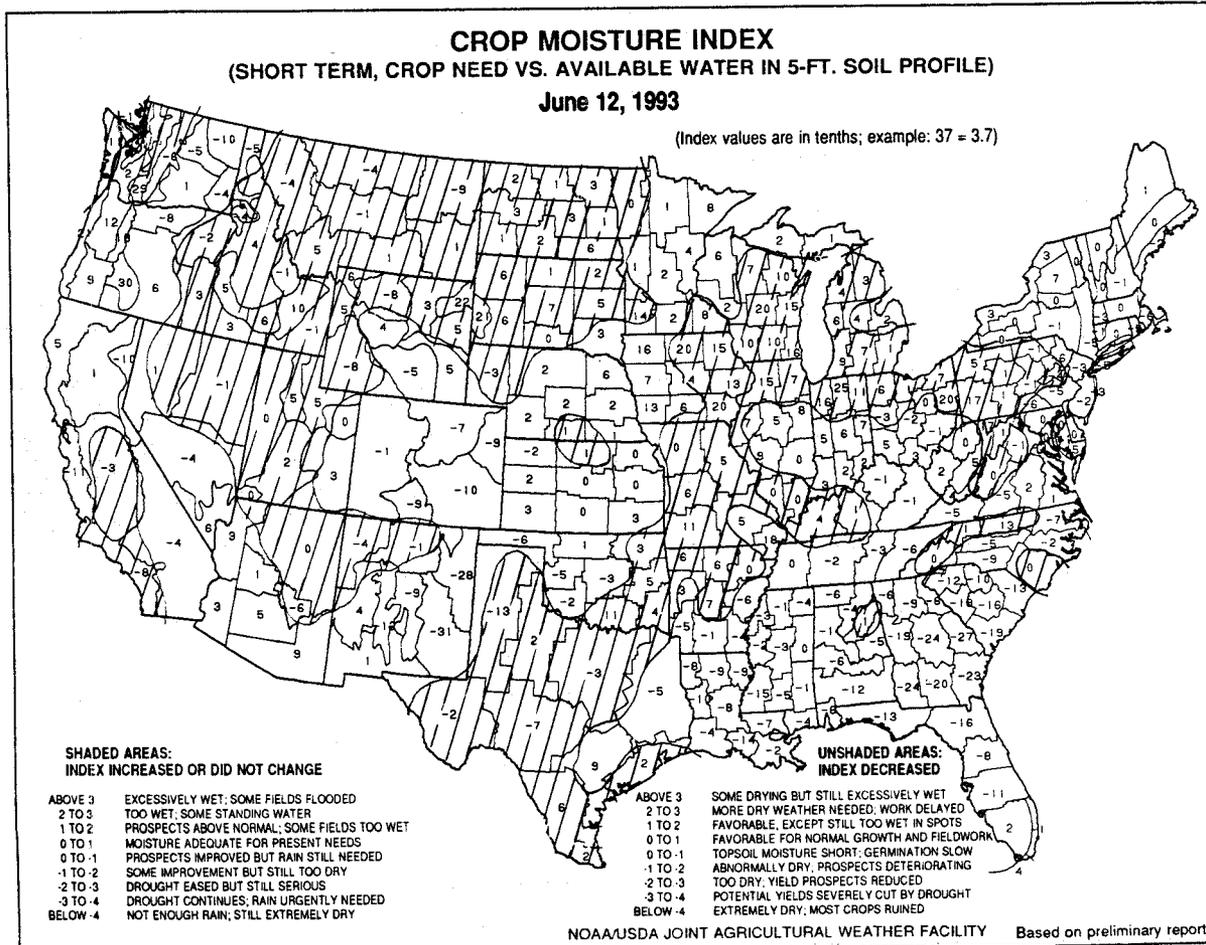
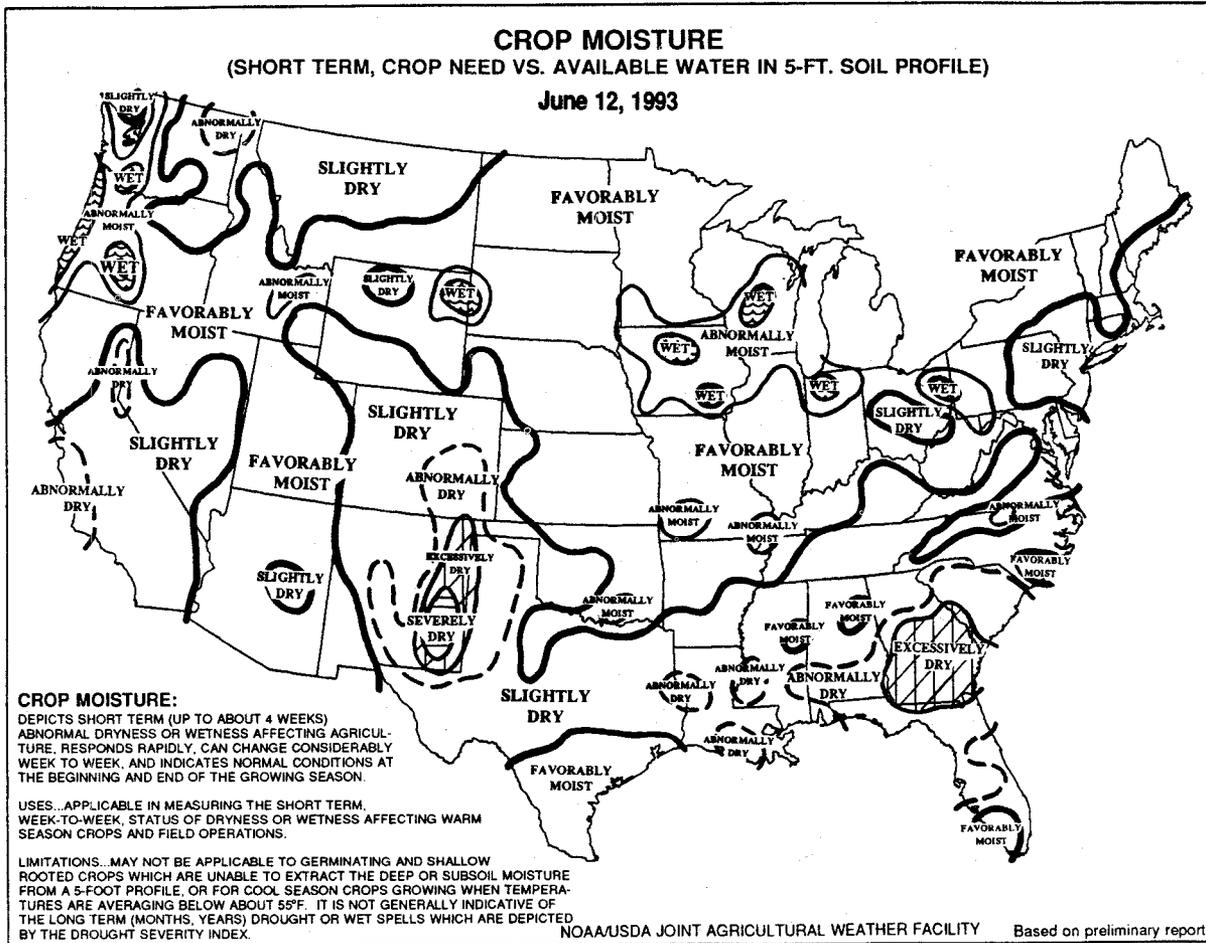
June 6 - 12, 1993

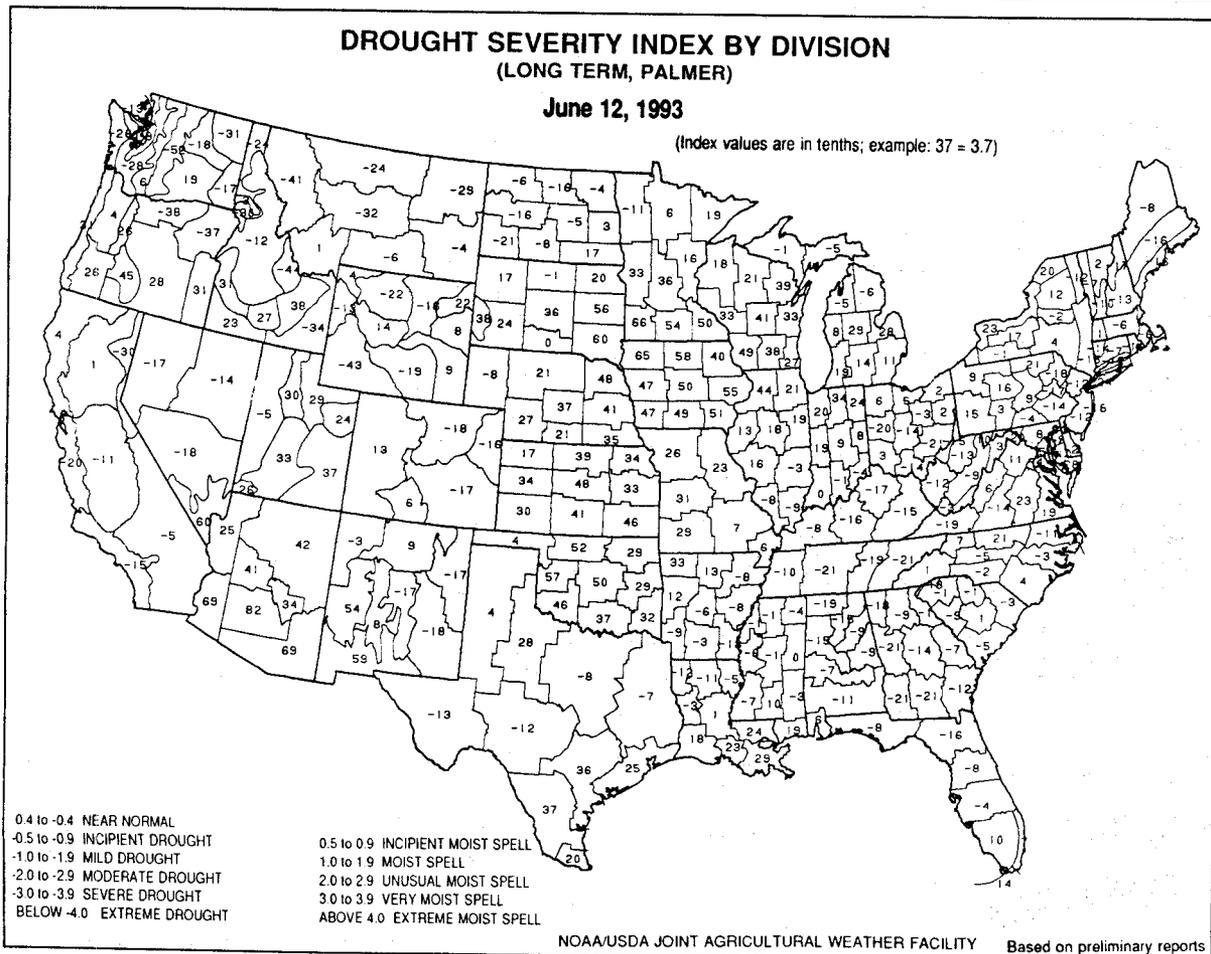
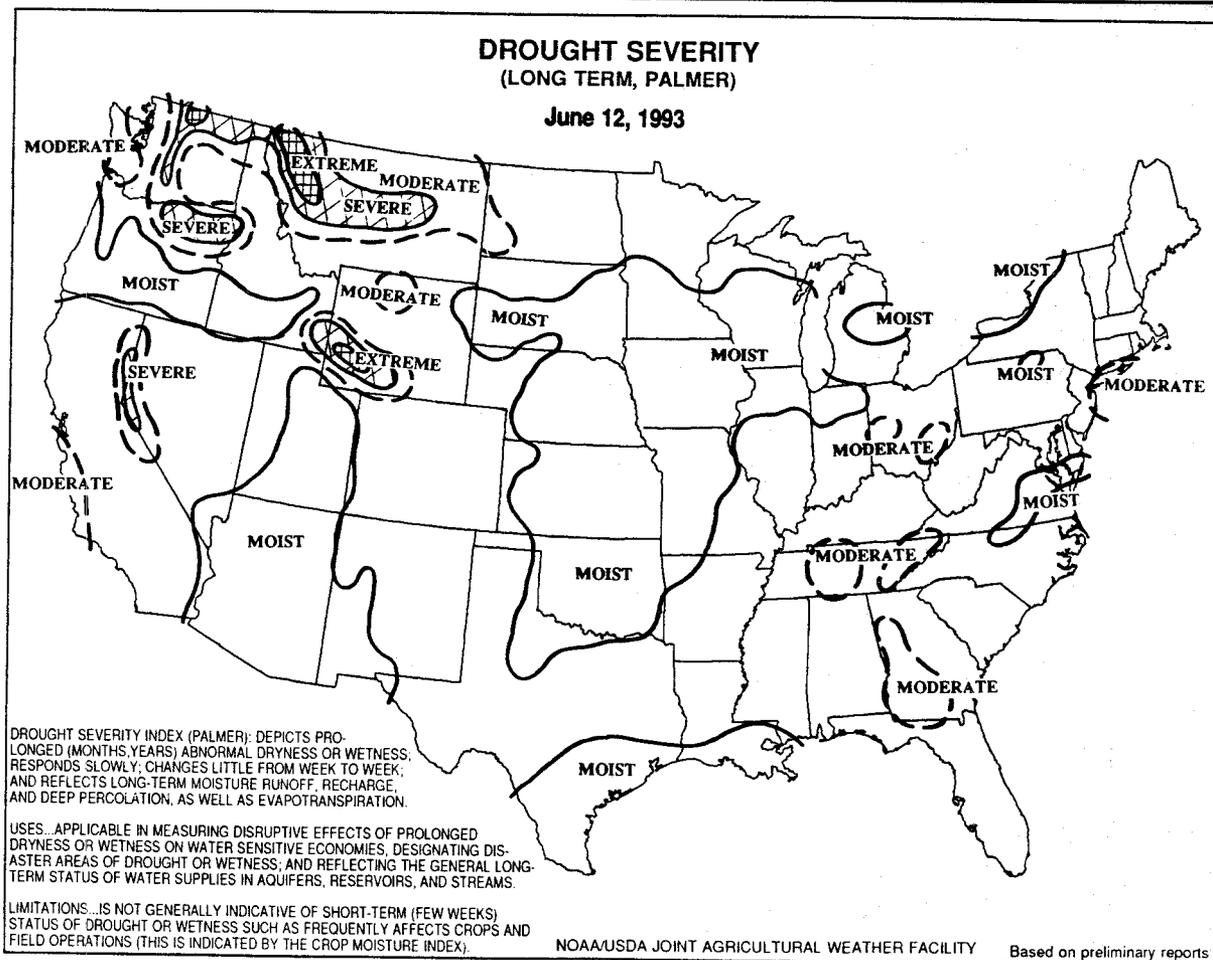
Excessive heat and continued dryness severely stressed crops in the **Southeast**, while farther west, several rounds of severe thunderstorms caused local wind-, hail-, and flash flood-related problems from the **upper Midwest** southward into **Texas** and eastward into the **Ohio Valley**. Early in the week, a winter-like storm crossed the **Rockies**, inducing mountain snowfall and valley coolness. More than 1 foot of snow fell at **Alta, UT** and as much as 3 inches whitened the **Colorado Rockies**. On Sunday, **Las Vegas, NV** noted its coolest June day on record (average temperature of 59°F), and the low of 48°F tied a June record. By late Monday, the system and its trailing cold front stormed into the **Plains**, preceded and accompanied by ferocious thunderstorms. Rainfall exceeded 1 inch from **eastern Montana** to **Pennsylvania**, and from the **Great Lakes States** to **Texas**. On Tuesday

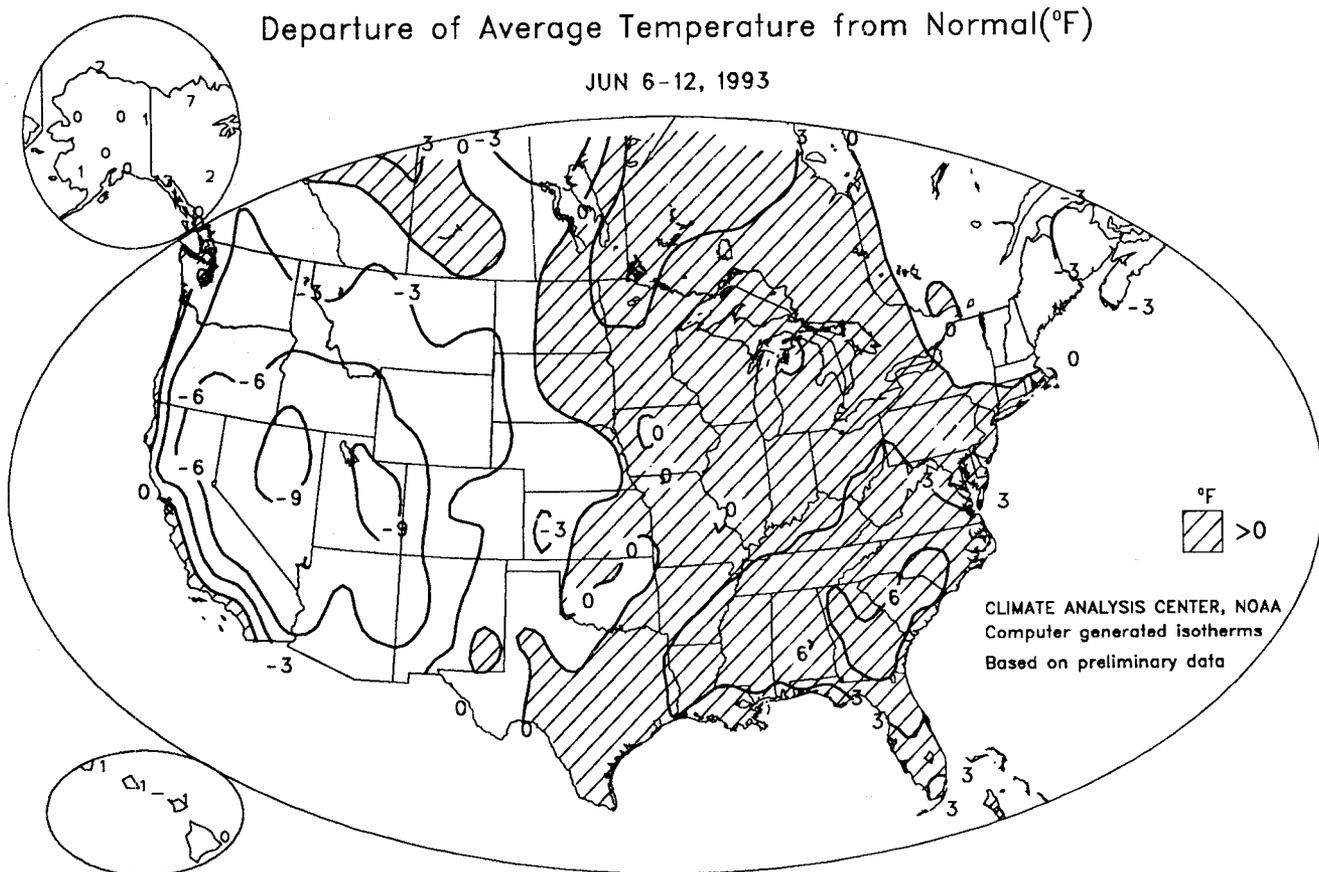
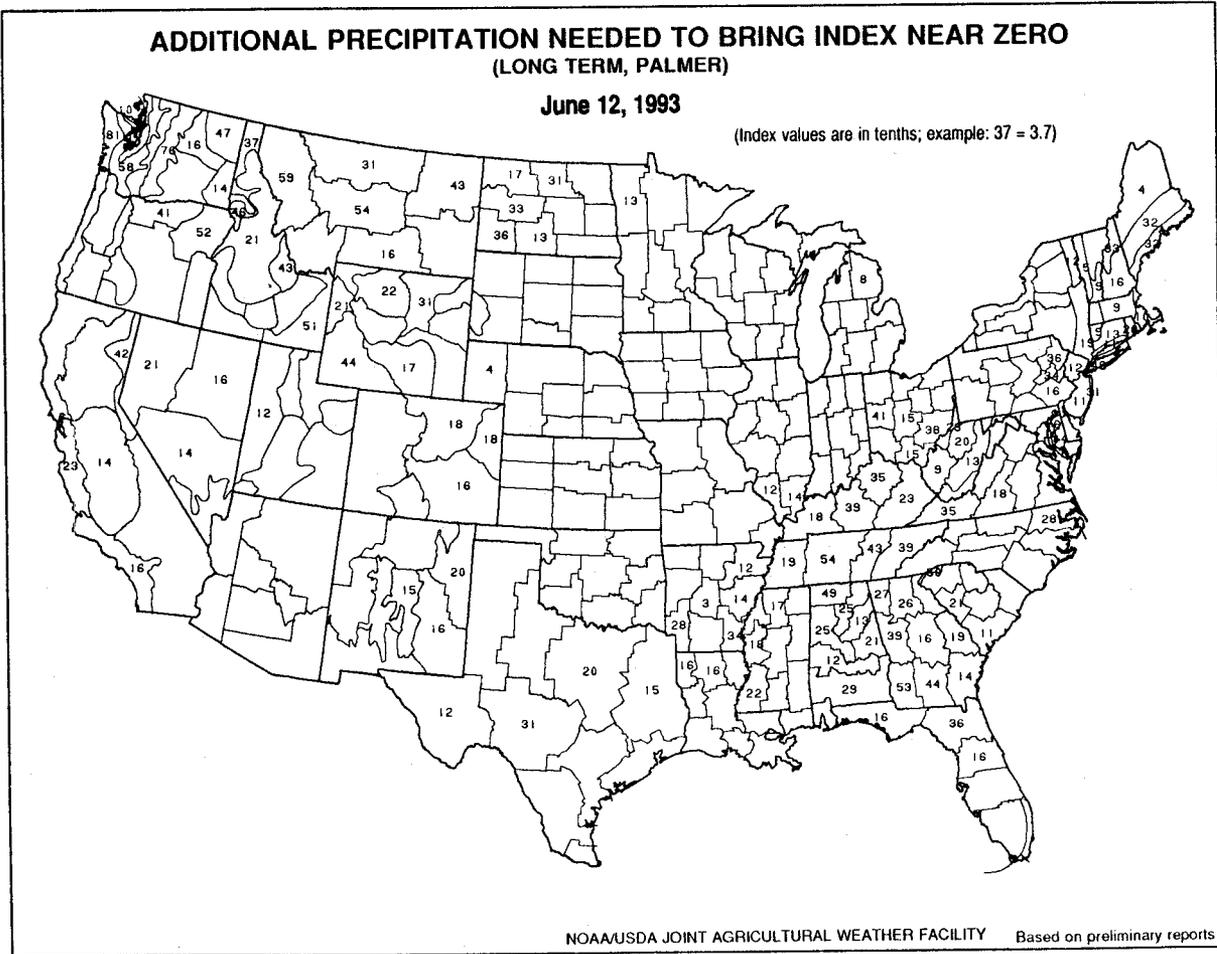
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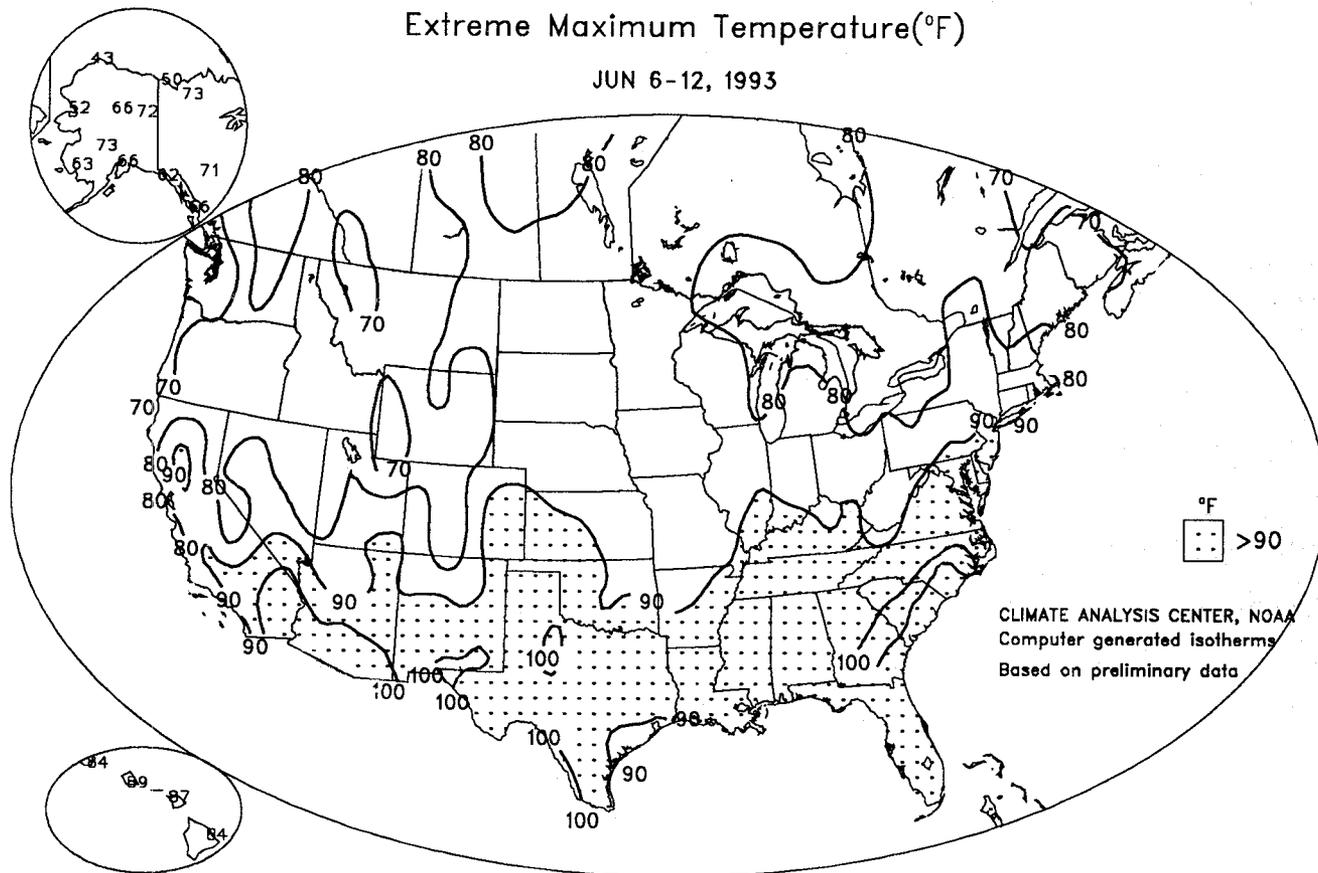






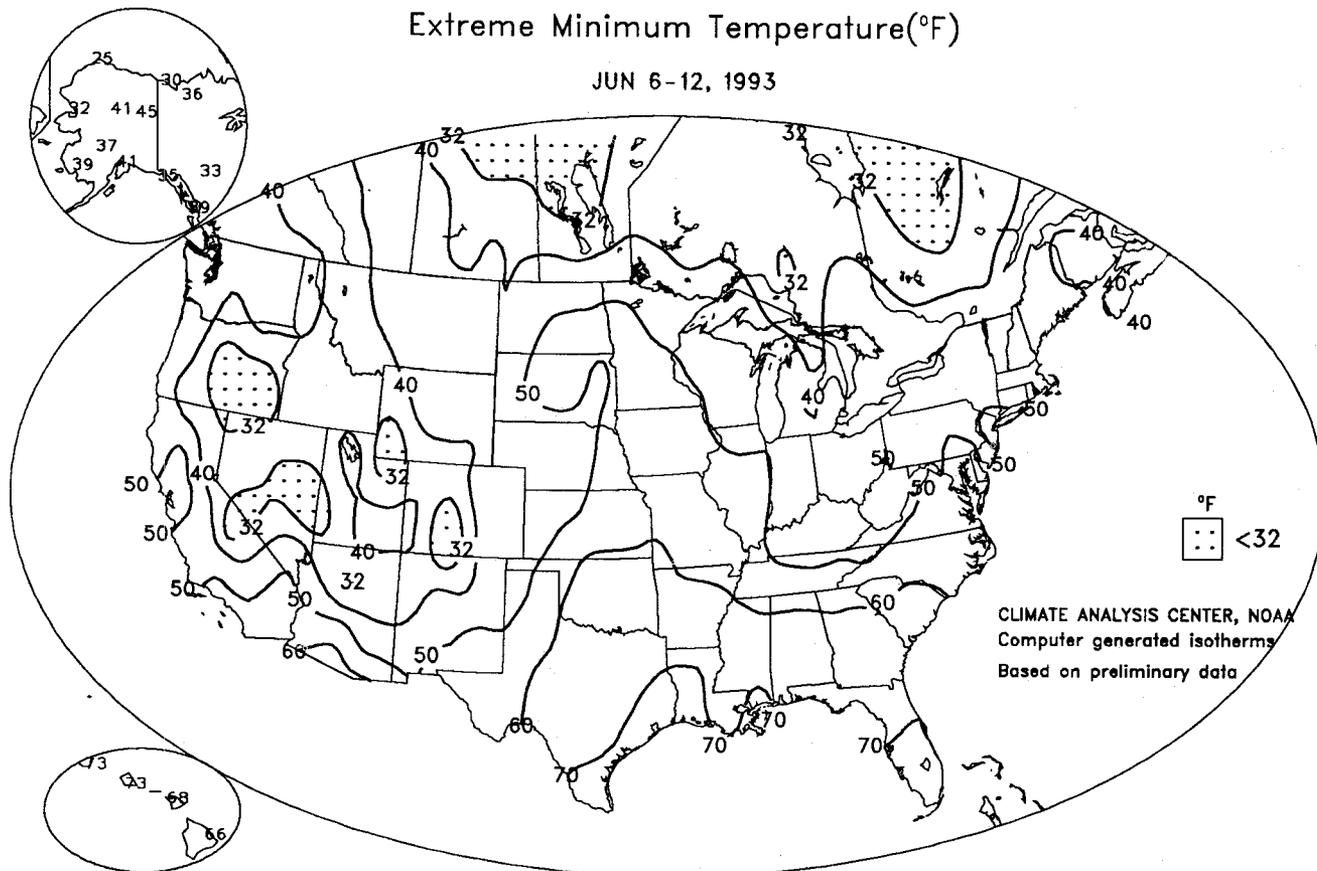
Extreme Maximum Temperature(°F)

JUN 6-12, 1993



Extreme Minimum Temperature(°F)

JUN 6-12, 1993



CUMULATIVE GROWING DEGREE DAYS (CORN*)

April 1 - June 12, 1993

STATES AND STATIONS	TOTAL	DEP. FROM NORMAL	STATES AND STATIONS	TOTAL	DEP. FROM NORMAL	STATES AND STATIONS	TOTAL	DEP. FROM NORMAL
AL ANNISTON	1226	- 86	SALINA	867	- 117	ZANESVILLE	756	- 45
BIRMINGHAM	1239	- 94	TOPEKA	829	- 164	OK ALTUS	1246	- 113
MOBILE	1409	- 200	WICHITA	886	- 216	GAGE	1019	- 90
MONTGOMERY	1348	- 54	KY LEXINGTON	916	- 59	HOBART	1112	- 121
MUSCLE SHOALS	1211	- 52	BOWLING GREEN	1035	- 58	MCALESTER	1272	- 28
OZARK	1397	- 104	PADUCAH	1106	- 53	PONCA CITY	1070	- 101
TUSCALOOSA	1314	- 85	LA LAFAYETTE	1491	- 144	TULSA	1052	- 206
AZ DOUGLAS	1329	+ 136	LAKE CHARLES	1540	- 104	OR BAKER	535	+ 15
FLAGSTAFF	642	+ 124	MONROE	1385	- 97	EUGENE	580	+ 27
PHOENIX	1915	+ 362	NEW ORLEANS	1456	- 177	NORTH BEND	460	+ 143
TUCSON	1567	+ 158	SHREVEPORT	1368	- 109	PENDLETON	694	+ 30
YUMA	1938	+ 311	ME AUGUSTA	481	+ 39	REDMOND	490	+ 36
PRESCOTT	917	+ 141	CARIBOU	340	+ 34	PORTLAND	663	+ 110
AR EL DORADO	1273	- 111	HOULTON	384	+ 23	SALEM	674	+ 127
FAYETTEVILLE	977	- 115	PORTLAND	420	+ 18	SEKTON SUMMIT	232	- 93
FORT SMITH	1170	- 111	MD SALISBURY	947	+ 47	PA ALLENTOWN	801	+ 65
JONESBORO	1157	- 140	MA WORCESTER	536	+ 20	PHILADELPHIA	961	+ 158
LITTLE ROCK	1205	- 130	MI BATTLE CREEK	603	- 80	WILLIAMSPORT	812	+ 89
TEXARKANA	1310	- 133	JACKSON	616	- 49	SC BEAUFORT	1475	- 2
CA BAKERSFIELD	1268	+ 5	LANSING	613	- 82	CHARLESTON	1425	+ 7
BLUE CANYON	241	- 129	MUSKEGON	524	- 21	COLUMBIA	1360	- 22
DAGGETT	1466	+ 106	PELLSTON	385	- 56	FLORENCE	1404	+ 30
EUREKA	533	+ 306	SAULT STE. MARIE	262	- 69	SUMTER/SHAW AFB	1328	- 65
FAIRFIELD	970	+ 56	TRAVERSE CITY	477	- 30	SD ABERDEEN	636	+ 43
FRESNO	1220	+ 105	MN DULUTH	292	- 49	HURON	598	- 67
MARYSVILLE	1086	- 4	INT'L FALLS	407	- 20	PIERRE	625	- 60
MERCED	1126	+ 27	ALEXANDRIA	479	- 51	RAPID CITY	537	- 54
MT SHASTA	389	- 134	WARROAD	358	- 80	SIOUX FALLS	565	- 127
PASO ROBLES	1052	+ 128	MS BILOXI	1528	- 112	WATERTOWN	464	- 92
RED BLUFF	985	- 106	COLUMBUS	1256	- 103	TN BRISTOL	989	- 4
RIVERSIDE	1239	+ 190	JACKSON	1361	- 51	CHATTANOOGA	1206	+ 13
SANTA ANA	1329	+ 351	MERIDIAN	1351	- 70	CROSSVILLE	954	+ 59
SAN DIEGO	1125	+ 236	GREENWOOD	1324	- 112	MEMPHIS	1273	- 79
SACRAMENTO	984	- 2	MO COLUMBIA	859	- 85	NASHVILLE	1111	- 86
THERMAL	1722	+ 106	JOPLIN	986	- 128	TX ABILENE	1420	- 17
CO ALAMOSA	507	- 35	SPRINGFIELD	906	- 123	AMARILLO	1028	- 11
DENVER	716	+ 38	VICHY	902	- 116	AUSTIN	1586	- 45
EAGLE	470	- 108	MT BOZEMAN	483	+ 241	BROWNSVILLE	1925	- 21
GRAND JUNCTION	819	- 91	HELENA	509	+ 51	COLLEGE STATION	1515	- 87
LA JUNTA	922	- 15	KALISPELL	527	+ 37	DALHART	980	+ 12
DE DOVER	848	- 107	MILES CITY	632	+ 21	DALLAS/FT WORTH	1450	- 16
WILMINGTON	907	+ 73	NE GRAND ISLAND	685	- 120	GALVESTON	1683	- 24
FL DAYTONA BEACH	1520	- 133	NORFOLK	683	- 87	HOUSTON	1584	- 24
FORT MYERS	1821	0	NORTH PLATTE	666	- 54	KINGSVILLE	1847	+ 0
GAINESVILLE	1461	- 186	VALENTINE	629	- 110	LAREDO	1927	+ 15
JACKSONVILLE	1487	- 111	SCOTTSBLUFF	678	- 2	LUBBOCK	1297	+ 75
FORT LAUDERDALE	2005	+ 109	SIDNEY	612	+ 6	MCALEEN	1973	+ 74
MIAMI	2003	+ 39	NV ELKO	517	- 52	MIDLAND	1404	- 25
MILTON	1465	- 76	ELY	533	+ 22	PALACIOS	1615	- 120
PENSACOLA	1483	- 136	LAS VEGAS	1585	+ 211	SAN ANTONIO	1620	- 51
ST PETERSBURG	1737	- 156	RENO	683	- 14	VICTORIA	1655	- 43
TALLAHASSEE	1456	- 96	WINNEMUCCA	682	+ 12	WACO	1476	- 94
TAMPA	1671	- 107	NH CONCORD	642	+ 64	WICHITA FALLS	1247	- 126
VERO BEACH	1700	- 53	NJ NEWARK	996	+ 202	WINK	1461	+ 24
W. PALM BEACH	1865	- 20	NM ALBUQUERQUE	1130	+ 125	UT CEDAR CITY	712	+ 31
GA ATHENS	1263	0	CARLSBAD	1446	+ 87	VT BARRE-MONTPELIER	461	+ 19
AUGUSTA	1408	+ 51	CLOVIS	1118	+ 71	BURLINGTON	556	+ 39
BRUNSWICK	1429	- 140	GALLUP	845	+ 77	VA CHARLOTTESVILLE	1052	+ 21
COLUMBUS	1387	- 46	TRUTH OR CONSEQ.	1271	+ 112	HAMPTON/LANGLEY	1122	+ 78
MACON	1372	- 79	NY ALBANY	677	+ 44	LYNCHBURG	1101	+ 113
SAVANNAH	1487	- 2	ELMIRA	665	+ 45	NORFOLK	1134	+ 64
ID BOISE	702	+ 42	GLENS FALLS	607	+ 43	RICHMOND	1107	+ 19
BURLEY	622	+ 48	POUGHKEEPSIE	718	+ 39	WA BELLINGHAM	520	+ 143
IDAHO FALLS	464	- 41	ROCHESTER	588	- 8	HOQUIAM	455	+ 125
POCATELLO	523	- 14	SYRACUSE	623	+ 28	SEATTLE-TACOMA	558	+ 126
IL BELLEVILLE	935	- 107	UTICA	551	+ 8	SPOKANE	555	+ 64
CHICAGO/MIDWAY	681	- 68	WATERTOWN	512	- 4	TACOMA	591	+ 95
DECATUR	816	- 145	NC ASHEVILLE	922	- 38	WALLA WALLA	730	+ 41
PEORIA	831	+ 6	FAYETTEVILLE	1272	+ 20	WENATCHEE	773	+ 11
ROCKFORD	692	- 15	GREENSBORO	1193	+ 88	YAKIMA	769	+ 51
SPRINGFIELD	869	- 55	HICKORY	1107	+ 5	WV HUNTINGTON	972	+ 47
QUINCY	807	- 81	RALEIGH	1210	+ 49	MARTINSBURG	844	- 24
IN INDIANAPOLIS	836	- 42	WILMINGTON	1338	+ 37	MORGANTOWN	852	- 2
SOUTH BEND	683	- 27	NEW BERN	1269	- 4	WI EAU CLAIRE	526	- 84
TERRE HAUTE	875	- 32	ND BISMARCK	553	+ 4	GREEN BAY	508	- 20
IA DES MOINES	697	- 184	DICKINSON	465	- 29	LACROSSE	591	- 95
MASON CITY	542	- 189	JAMESTOWN	504	- 32	MADISON	646	- 29
OTTUMWA	754	- 87	MINOT	482	- 1	WAUSAU	456	- 85
KS CHANUTE	881	- 186	GRAND FORKS	560	+ 41	WY CASPER	539	+ 26
DODGE CITY	842	- 118	OH AKRON-CANTON	674	- 27	LANDER	498	+ 12
GARDEN CITY	821	- 130	COLUMBUS	782	- 45	SHERIDAN	540	+ 32
GOODLAND	686	- 76	DAYTON	762	- 79	WORLAND	680	+ 67
MEDICINE LODGE	976	- 159	FINDLAY	631	- 96			
RUSSELL	826	- 105	YOUNGSTOWN	654	+ 6			

Based on 1951-80 normals.

* Growing degree days for corn are computed to a 50°F base with the daily maximum temperature limited to 86°F or lower, and the daily minimum to 50°F or higher.

National Weather Data for Selected Cities

Weather Data for the Week Ending June 12, 1993

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY PERCENT		NUMBER OF DAYS							
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Jun 1	PCT. NORMAL SINCE Jun 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMP. °F		PRECIP.				
																90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE			
AL BIRMINGHAM	93	68	95	63	81	5	.0	-1.8	.0	.0	0	19.6	72	86	46	6	0	0	0			
MOBILE	92	71	95	68	82	2	T	-1.1	.0	T	0	33.0	115	93	48	7	0	0	0			
MONTGOMERY	96	69	97	67	82	6	T	-1.1	.0	T	1	22.3	83	89	40	7	0	1	0			
AK ANCHORAGE	61	45	66	41	53	0	T	-1.1	.0	T	0	3.7	90	76	45	0	0	0	0			
BARRON	37	31	43	25	34	2	T	.4	.3	T	.4	600	1.2	156	91	74	4	0	0			
FAIRBANKS	69	46	73	41	57	-1	T	.3	.3	T	.72	3.9	146	88	40	0	0	5	0			
JUNEAU	59	47	69	41	53	1	T	-2	.6	T	1.5	120	25.3	133	95	65	0	1	1			
KODIAK	54	44	62	39	49	0	T	-1.1	1.1	T	2.7	129	34.7	119	91	58	0	4	0			
NOME	55	41	71	35	48	4	T	-1.1	1.1	T	.2	47	4.8	134	81	49	0	1	0			
AZ PHOENIX	95	69	106	60	82	-5	T	.0	.0	T	>1000	8.7	334	32	11	5	0	1	0			
PRESCOTT	76	47	87	38	62	-4	T	.1	.1	T	>1000	12.0	192	72	23	0	0	1	0			
TUCSON	94	60	105	51	77	-5	T	.0	.0	T	0	7.4	269	39	11	4	0	0	0			
YUMA	97	69	107	59	83	-3	T	.0	.0	T	0	3.3	344	32	14	5	0	0	0			
AR FORT SMITH	85	67	89	66	76	1	T	1.5	.0	T	1.5	97	23.2	121	91	61	0	4	1			
LITTLE ROCK	88	70	91	64	79	3	T	.8	.0	T	.7	46	22.3	97	82	56	4	2	1			
CA BAKERSFIELD	84	58	95	51	71	-6	T	.0	.0	T	.5	940	6.6	175	53	22	2	0	0	0		
BUREKA	64	52	71	46	58	3	T	.5	.4	T	.4	436	29.4	142	84	46	0	3	0	0		
FRESNO	82	57	91	48	69	-6	T	.0	.0	T	1.6	>1000	11.4	165	76	31	1	0	0	0		
LOS ANGELES	74	60	82	54	67	2	T	.0	.0	T	>1000	18.5	238	85	45	0	0	0	0	0		
REDDING	81	57	91	53	69	-5	T	.0	.0	T	.7	207	35.2	190	72	27	1	0	0	0		
SACRAMENTO	80	54	91	51	67	-3	T	.0	.0	T	1.3	>1000	19.1	179	88	34	1	0	1	0		
SAN DIEGO	73	61	81	56	67	1	T	.0	.0	T	.4	820	15.5	252	84	45	0	0	1	0		
SAN FRANCISCO	71	55	79	52	63	2	T	.0	.0	T	.2	320	19.4	159	83	43	0	0	0	0		
CO DENVER	78	49	92	45	64	-1	T	.4	.0	T	.3	37	5.5	77	72	25	1	0	1	0		
GRAND JUNCTION	79	51	89	43	65	-6	T	.2	.0	T	0	7.5	167	61	19	0	0	0	0	0		
PUEBLO	84	48	95	42	66	-3	T	.1	.0	T	.2	34	5.9	148	67	17	3	0	2	0	0	
CT BRIDGEPORT	78	59	88	54	69	3	T	.4	.4	T	.9	66	16.9	88	81	40	0	0	0	0	0	
HARTFORD	78	55	86	47	67	0	T	.5	.4	T	1.2	75	20.0	101	89	43	0	0	3	0	0	
DC WASHINGTON	84	65	94	56	74	0	T	.7	.4	T	1.4	102	20.4	125	82	52	2	0	3	0	0	
FL APALACHICOLA	91	70	95	66	80	1	T	.0	.0	T	.9	0	15.2	81	--	--	2	0	0	0	0	
DAYTONA BEACH	92	72	93	68	82	3	T	-1.4	.0	T	0	13.9	83	93	54	7	0	0	0	0	0	
JACKSONVILLE	98	73	100	67	85	7	T	-1.2	.0	T	1	15.2	81	83	40	7	0	0	0	0	0	
KEY WEST	88	81	89	80	85	2	T	-1.2	.0	T	0	15.9	124	76	65	0	0	0	0	0	0	
MIAMI	90	78	93	76	84	3	T	-2.2	.0	T	1.5	38	19.9	103	77	57	4	0	1	0	0	
ORLANDO	94	73	96	71	84	3	T	-1.6	1.0	T	2.0	76	18.7	113	89	46	7	0	1	1	1	
TALLAHASSEE	98	68	100	63	83	4	T	.8	.6	T	.8	33	24.0	87	87	36	7	0	2	1	1	
TAMPA	93	74	96	68	84	3	T	.9	.9	T	.9	44	14.9	104	87	48	7	0	1	1	1	
WEST PALM BEACH	89	76	90	73	83	2	T	.0	-1.9	T	.1	3	25.9	122	83	61	2	0	0	0	0	0
GA ATLANTA	94	71	95	61	82	7	T	.1	-1.8	T	.1	4	21.8	86	73	37	6	0	1	0	0	
AUGUSTA	100	70	103	65	85	9	T	.6	-4.5	T	.6	36	20.1	93	84	35	7	0	3	1	1	
MACON	96	70	99	67	83	6	T	.8	.0	T	0	24.6	109	83	39	7	0	0	0	0	0	
SAVANNAH	96	74	99	70	85	7	T	1.9	.6	T	1.6	2.0	93	23.3	118	85	44	7	0	2	1	1
HI HILO	83	69	85	66	76	1	T	1.3	-1.1	T	.4	2.1	85	35.5	58	92	69	0	0	7	0	0
HONOLULU	88	74	89	73	81	2	T	.1	-1.1	T	.1	33	1.7	15	79	50	0	0	2	0	0	
KAHULUI	86	71	87	68	79	1	T	-1.1	.0	T	0	5.4	43	74	57	0	0	0	0	0	0	
LIHUE	83	75	84	73	79	1	T	-1.1	-1.3	T	.1	13	6.3	30	79	67	0	0	1	0	0	
ID BOISE	67	47	77	34	57	-8	T	1.0	.8	T	.6	2.0	543	10.1	155	89	35	0	0	3	1	1
LEWISTON	69	52	76	47	60	-5	T	.3	.0	T	.1	.8	136	8.1	130	75	38	0	0	3	0	0
POCATELLO	65	42	74	36	54	-7	T	1.0	.7	T	.5	2.6	563	12.1	194	86	35	0	0	4	0	0
IL CHICAGO	77	57	81	48	67	0	T	1.8	.9	T	1.0	3.2	213	18.7	134	92	52	0	0	2	2	2
MOLINE	82	59	87	50	70	1	T	2.8	1.8	T	1.4	4.3	261	21.2	136	92	50	0	0	2	2	2
PEORIA	81	61	86	53	71	1	T	.5	-4.5	T	.5	1.9	122	19.3	130	89	48	0	0	2	0	0
QUINCY	80	63	86	55	72	1	T	.1	-1.8	T	.1	2.4	154	13.1	82	88	54	0	0	2	0	0
ROCKFORD	78	58	83	45	68	1	T	3.4	2.4	T	1.7	4.6	262	21.0	150	96	54	0	0	3	2	2
SPRINGFIELD	81	63	88	55	72	1	T	.9	.1	T	.9	4.2	304	18.8	124	88	53	0	0	1	1	1
IN EVANSVILLE	85	65	92	50	75	1	T	1.9	1.1	T	1.2	2.4	163	20.4	94	91	53	3	0	3	1	1
FORT WAYNE	78	60	83	48	69	1	T	2.4	1.5	T	.9	3.0	209	21.9	147	91	59	0	0	3	3	3
INDIANAPOLIS	82	62	87	46	72	1	T	1.3	.5	T	.9	2.9	208	18.7	106	91	55	0	0	4	1	1
SOUTH BEND	79	60	82	49	69	2	T	5.9	5.0	T	3.0	6.4	403	20.5	129	87	50	0	0	2	2	2
IA DES MOINES	81	60	84	55	71	2	T	.2	-1.8	T	.1	1.6	86	18.4	134	86	48	0	0	4	0	0
SIOUX CITY	80	58	87	51	69	0	T	.2	-1.7	T	.1	1.0	68	11.4	106	81	38	0	0	4	0	0
WATERLOO	81	59	88	56	70	2	T	2.1	1.0	T	2.1	2.6	148	18.2	137	93	50	0	0	1	1	1
KS CONCORDIA	84	58	87	54	71	0	T	.8	-2.2	T	.8	1.1	58	11.7	98	92	43	0	0	1	1	1
DODGE CITY	85	57	94	52	71	-1	T	.0	-1.7	T	.0	.2	14	10.5	118	85	31	1	0	0	0	0
GOODLAND	81	50	93	43	66	-2	T	.8	-1.7	T	.3	.6	47	6.1	76	85	30	1	0	1	0	0
TOPEKA	83	62	85	57	73	0	T	.6	-1.7	T	.3	.7	32	19.2	135	92	50	0	0	3	0	0
WICHITA	84	64	87	58	74	1	T	-1.2	-1.1	T	.3	11	15.8	112	93	47	0	0	1	0	0	0
KY BOWLING GREEN	89	64	95	45	76	3	T	1.0	.0	T	.4	1.2	68	16.3	68	92	49	4	0	3	0	0
LEXINGTON	84	61	89	46	73	2	T	.9	-1.1	T	.5	3.5	245	19.8	98	93	52	0	0	4	0	0
LOUISVILLE	85	63	92	48	74	2	T	.4	-1.4	T	.3	1.8	131	21.1	100	93	52	2	0	2	0	0
LA BATON ROUGE	92	71	93	67	82	2	T	-1.0	.0	T	0	0	35.3	130	97	48	7	0	0	0	0	0
LAKE CHARLES	88	74	89	71	81	2	T	.5	-1.7	T	.4	.5	22	31.1	138	96	65	0	0	2	0	0
NEW ORLEANS	91	72	92	68	81	2	T	1.4	.0	T	1.4	61	29.6	109	97	56	6	0	1	1	1	1
SHREVEPORT	90	72	92	69	81	4	T	.5	-1.5	T	.3	.5	27	23.4	98	94	60	4	0	2	0	0

Based on 1961-90 normals.

Weather Data for the Week Ending June 12, 1993

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS						
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Jun 1	PCT. NORMAL SINCE Jun 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	TEMP. °F		PRECIP.	
																		.01 INCH OR MORE	.50 INCH OR MORE		
ME CARIBOU	67	47	78	41	57	-2	1.0	.3	.7	2.2	199	15.2	113	83	48	0	0	0	3	1	
PORTLAND	70	50	83	46	60	0	.9	.1	.6	1.8	126	21.5	109	91	42	0	0	3	1		
MD BALTIMORE	82	61	93	51	72	1	1.5	.7	1.2	1.9	130	22.9	128	86	48	1	0	3	1		
SALISBURY	83	62	95	52	73	3	.2	-.6	.2	1.1	75	24.6	126	95	58	2	0	1	0		
MA BOSTON	74	55	88	50	65	-1	.4	-.3	.4	.8	62	21.5	113	88	43	0	0	3	0		
CHATHAM	67	53	77	49	60	0	.2	-.6	.2	1.4	108	19.5	95	91	45	0	0	2	0		
MI ALPENA	74	49	80	36	61	2	1.0	.3	.6	1.1	93	9.3	82	99	51	0	0	3	1		
DETROIT	78	58	84	43	68	2	1.5	.7	1.3	1.9	134	13.8	104	87	48	0	0	3	1		
FLINT	79	56	82	40	67	3	1.6	.8	1.0	2.1	165	13.6	116	87	48	0	0	3	1		
GRAND RAPIDS	76	56	80	41	66	1	1.9	1.0	1.3	2.6	180	17.4	126	91	50	0	0	2	2		
HOUGHTON LAKE	75	53	80	39	64	3	1.6	.9	1.0	1.9	157	10.6	99	92	41	0	0	4	1		
LANSING	78	55	82	38	66	1	2.0	1.2	1.7	2.7	199	15.1	125	98	52	0	0	3	1		
MARQUETTE	70	51	80	46	60	3	.4	-.4	.2	.4	30	13.2	96	89	46	0	0	3	0		
MUSKOGON	75	54	82	42	65	1	1.5	.9	1.0	1.8	182	13.9	109	90	48	0	0	3	1		
SAULT ST. MARIE	70	47	80	37	59	2	1.2	.4	.8	1.2	92	12.3	96	94	43	0	0	3	1		
MN ALEXANDRIA	74	57	88	53	66	1	.8	-.2	.6	.9	55	10.8	111	93	54	0	0	3	1		
DULUTH	67	50	78	46	58	0	2.1	1.2	1.1	2.1	140	11.9	111	96	48	0	0	4	2		
INT'L FALLS	75	52	86	46	63	4	.6	-.3	.2	.6	43	6.2	77	90	40	0	0	5	0		
MINNEAPOLIS	78	60	87	56	69	2	.6	-.3	.5	.6	39	9.6	85	86	51	0	0	4	1		
ROCHESTER	76	56	83	52	66	2	1.9	1.1	1.6	2.1	144	15.9	146	90	51	0	0	2	1		
MS GREENWOOD	93	71	94	67	82	4	T	-1.0	T	T	0	24.1	88	90	49	7	0	0	0		
JACKSON	95	71	96	69	83	6	.2	-.5	.2	.2	17	20.6	72	92	48	7	0	1	0		
MERIDIAN	94	71	95	69	83	6	.0	-.8	.0	.0	0	28.9	101	92	46	7	0	0	0		
MO CAPE GIRARDEAU	84	66	91	53	75	0	1.6	.8	1.4	2.5	164	23.2	103	94	57	1	0	5	1		
COLUMBIA	81	62	86	54	72	2	3.3	2.4	3.2	3.7	225	20.6	125	97	57	0	0	3	1		
KANSAS CITY	82	62	85	57	72	0	.5	-.7	.4	1.3	65	19.6	132	93	49	0	0	2	0		
SAINT LOUIS	82	66	90	57	74	0	3.4	2.5	1.5	3.5	233	23.2	141	87	58	1	0	4	2		
SPRINGFIELD	81	65	85	61	73	2	2.2	.9	1.2	4.5	204	20.2	109	94	62	0	0	5	1		
MT BILLINGS	69	51	81	47	60	-3	1.3	.7	.8	1.3	143	4.9	61	79	39	0	0	5	1		
GLASGOW	74	50	84	42	62	-1	.3	-.2	.1	.4	47	2.7	62	84	33	0	0	5	0		
GREAT FALLS	64	47	70	43	55	-5	.7	-.1	.4	1.5	143	10.4	138	88	44	0	0	5	0		
HAVRE	68	50	78	45	59	-3	.1	-.3	.1	.1	17	2.9	60	85	42	0	0	2	0		
HELENA	63	47	71	40	55	-5	.9	.4	.5	1.1	142	6.8	128	84	45	0	0	4	1		
KALISPELL	63	46	71	36	55	-2	.6	.1	.4	1.3	140	8.4	111	87	47	0	0	3	0		
MILES CITY	71	51	81	48	61	-4	2.9	2.2	2.4	3.3	278	8.2	128	94	44	0	0	4	1		
MISSOULA	62	46	71	38	54	-4	.9	.4	.7	1.1	136	7.1	109	93	45	0	0	4	1		
NE GRAND ISLAND	81	55	86	50	68	-2	.2	-.8	.2	.9	52	9.4	85	86	39	0	0	1	0		
LINCOLN	81	57	85	51	69	-2	.7	-.3	.5	1.4	86	11.9	102	96	45	0	0	3	0		
NORFOLK	80	57	88	51	68	0	.2	-.9	.1	1.1	60	11.3	104	85	36	0	0	3	0		
NORTH PLATTE	76	53	83	43	65	-1	.9	.1	.9	2.0	142	9.0	102	85	36	0	0	1	1		
OMAHA	80	61	85	57	71	1	3.1	2.1	2.6	4.3	260	15.8	129	81	40	0	0	3	1		
SCOTTSBLUFF	73	50	85	43	61	-4	.6	-.1	.3	2.9	257	9.2	123	86	38	0	0	3	0		
VALENTINE	77	54	87	46	65	-2	.1	-.7	.1	.7	52	7.5	81	80	36	0	0	2	0		
NV ELY	64	33	78	28	49	-9	.2	.0	.2	1.1	269	6.8	140	82	35	0	3	3	0		
LAS VEGAS	88	62	98	48	75	-8	.0	.0	.0	1.60	4.4	232	42	14	4	0	0	0	0		
RENO	71	44	82	38	57	-6	T	-.1	T	.3	150	4.9	119	72	26	0	0	1	0		
WINNEMUCCA	67	41	81	33	54	-8	.5	-.3	.5	1.0	258	5.9	141	85	30	0	0	1	1		
NE CONCORD	74	51	81	43	62	-1	.5	-.3	.3	1.0	75	11.9	79	94	43	0	0	3	0		
NJ ATLANTIC CITY	81	57	92	46	69	1	.1	-.5	.1	.4	38	18.7	104	90	41	2	0	1	0		
NM ALBUQUERQUE	85	53	94	47	69	-3	T	-.1	T	T	0	3.0	113	50	12	2	0	0	0		
CLOVIS	88	56	94	45	72	0	.1	-.6	.1	.1	9	2.2	42	69	14	3	0	1	0		
ROSWELL	94	60	99	55	77	0	T	-.4	T	T	0	2.5	76	53	12	7	0	0	0		
NY ALBANY	76	51	84	41	63	-2	.2	-.7	.1	.7	49	17.6	114	90	41	0	0	3	0		
BINGHAMTON	72	53	78	47	62	0	.9	.1	.5	1.9	137	19.6	127	88	43	0	0	3	1		
BUFFALO	73	57	80	51	65	1	1.3	.4	.9	3.1	215	16.8	110	86	40	0	0	3	1		
NEW YORK	81	63	90	56	72	2	.5	-.3	.5	.8	56	19.4	105	77	37	2	0	1	1		
ROCHESTER	75	55	81	50	65	1	.8	.1	.5	1.7	140	12.3	95	94	48	0	0	2	1		
SYRACUSE	76	53	83	48	64	0	.7	-.2	.3	1.6	108	19.6	128	89	44	0	0	3	0		
NC ASHEVILLE	88	59	92	52	73	5	.6	-.6	.5	.6	30	20.4	82	90	41	3	0	1	0		
CHARLOTTE	92	69	97	59	80	6	.1	-.7	.1	.1	9	21.2	107	74	42	0	0	3	0		
GREENSBORO	90	66	97	56	78	6	3.0	2.1	2.7	3.1	203	26.7	144	80	45	4	0	3	1		
HATTERAS	84	67	92	55	76	3	.8	-.1	.5	2.0	125	24.3	106	94	58	2	0	2	1		
NEW BERN	91	68	100	58	80	3	.8	-.4	.5	1.3	65	23.0	103	89	41	4	0	2	0		
RALEIGH	89	67	95	56	78	3	.1	-.7	.1	.3	18	21.3	112	79	50	4	0	1	0		
WILMINGTON	91	68	97	58	80	5	2.2	1.2	2.2	2.2	125	25.9	116	94	50	4	0	2	1		
ND BISMARCK	74	52	87	50	63	1	1.3	.6	.6	1.7	153	6.3	95	92	43	0	0	3	1		
FARGO	77	58	89	51	68	4	.6	-.1	.9	1.6	53	5.8	77	87	45	0	0	4	0		
GRAND FORKS	77	57	88	52	67	4	1.7	1.1	.9	1.7	156	4.4	66	89	51	0	0	4	2		
WILLISTON	72	47	81	38	60	-3	1.7	1.2	1.1	2.2	243	4.7	81	91	42	0	0	5	2		
OH AKRON-CANTON	78	58	83	44	68	2	2.1	1.4	1.1	2.5	197	17.7	112	92	48	0	0	3	2		
CINCINNATI	81	62	88	46	72	2	1.5	.6	1.2	2.9	185	19.2	101	90	57	0	0	3	1		
CLEVELAND	78	58	82	43	68	2	2.4	1.6	.9	2.9	197	18.5	121	95	54	0	0	3	3		
COLUMBUS	82	61	89	43	71	4	.3	-.6	.3	.9	56	17.3	105	87	53	0	0	1	0		
DAYTON	80	61	88	48	71	2	1.3	.4	1.3	2.3	146	23.6	142	89	51	0	0	1	1		

Based on 1961-90 normals.

Weather Data for the Week Ending June 12, 1993

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION						RELATIVE HUMIDITY, PERCENT	NUMBER OF DAYS							
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Jun 1	PCT. NORMAL SINCE Jun 1	TOTAL, IN., SINCE Jan 1		PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	TEMP. °F		PRECIP.
													01 INCH OR MORE						0.50 INCH OR MORE	OR MORE	OR MORE
TOLEDO	78	59	85	44	69	2	1.5	.6	1.0	2.0	136	14.6	108	92	57	0	0	3	1		
YOUNGSTOWN	78	56	82	40	67	2	2.0	1.1	.8	2.1	136	15.7	102	91	49	0	0	3	2		
OK OKLAHOMA CITY	84	65	88	63	75	1	1.0	1.1	.9	2.1	136	15.7	102	91	49	0	0	3	1		
TULSA	83	67	88	63	75	1	2.0	1.1	.9	2.1	136	15.7	102	91	49	0	0	3	1		
OR ASTORIA	61	52	64	48	57	0	2.0	1.4	1.1	2.4	123	21.6	118	93	62	0	0	4	2		
BURNS	63	39	71	28	51	0	2.0	1.4	1.1	2.4	123	21.6	118	93	62	0	0	4	2		
MEDFORD	72	49	79	39	61	0	1.1	1.2	1.0	1.2	84	6.9	145	82	37	0	1	1	0		
PENDLETON	71	50	77	46	60	0	1.1	1.2	1.0	1.2	84	6.9	145	82	37	0	1	1	0		
PORTLAND	67	53	71	49	60	0	1.4	1.0	.2	1.5	150	7.9	127	76	37	0	0	0	0		
SALEM	67	50	71	45	59	-1	1.4	1.0	.2	1.5	150	7.9	127	76	37	0	0	0	0		
PA ALLENTOWN	80	58	89	49	69	1	1.1	1.1	1.1	1.5	99	21.1	113	86	43	0	0	2	1		
ERIE	76	60	84	50	68	3	1.1	1.2	.8	1.7	104	14.3	90	95	55	0	0	3	1		
HARRISBURG	82	65	92	51	73	4	1.1	1.2	.8	1.7	104	14.3	90	95	55	0	0	3	1		
PHILADELPHIA	83	63	92	54	73	4	1.1	1.2	.8	1.7	104	14.3	90	95	55	0	0	3	1		
PITTSBURGH	80	59	86	45	70	3	1.4	1.1	1.0	2.1	144	18.7	113	89	52	0	0	3	2		
SCRANTON	79	57	87	48	68	3	1.5	1.4	.5	.8	48	16.7	111	81	42	0	0	2	0		
RI PROVIDENCE	77	57	86	48	67	2	1.4	1.4	.3	.9	67	21.6	104	84	43	0	0	2	0		
SC CHARLESTON	92	71	97	64	81	4	1.1	1.1	1.4	1.7	111	23.5	117	88	51	4	0	1	0		
COLUMBIA	96	69	100	62	83	7	1.1	1.1	1.1	1.1	7	21.5	97	82	35	6	0	1	0		
FLORENCE	97	70	102	60	83	7	1.1	1.1	1.1	1.1	5	15.3	81	85	35	6	0	2	0		
GREENVILLE	92	64	96	52	78	4	1.1	1.1	1.1	1.1	0	27.0	112	84	39	6	0	2	0		
SD ABERDEEN	78	57	86	50	68	3	1.2	1.5	.8	1.3	99	7.5	90	93	54	0	0	4	1		
HURON	79	57	85	50	68	2	1.7	1.1	.6	2.2	161	11.1	123	86	42	0	0	4	1		
RAPID CITY	72	51	84	49	62	-1	2.0	1.3	1.6	2.3	184	9.7	125	80	39	0	0	3	1		
SIoux FALLS	79	58	87	52	68	2	1.2	1.6	.2	.9	64	15.3	158	80	41	0	0	3	1		
TN CHATTANOOGA	93	66	96	56	79	5	1.3	1.5	.3	.3	20	23.2	90	91	46	6	0	1	0		
KNOXVILLE	89	65	93	53	77	7	1.1	1.1	1.1	1.1	0	18.7	82	87	47	4	0	0	0		
MEMPHIS	91	71	93	56	81	4	1.6	1.7	1.1	1.6	104	21.4	84	83	51	6	0	2	1		
NASHVILLE	89	66	93	52	78	3	1.5	1.4	.4	.5	33	19.7	86	87	46	4	0	2	0		
TX ABILENE	89	68	100	62	79	0	3.5	2.8	1.9	3.5	289	9.6	99	88	40	3	0	3	2		
AMARILLO	88	58	98	49	72	-1	1.1	1.8	.1	1.1	6	4.8	68	82	19	3	0	1	0		
AUSTIN	88	74	92	67	81	1	1.5	1.5	.2	.5	27	17.3	117	88	62	2	0	3	0		
BEAUMONT	89	77	90	75	83	3	1.3	1.0	.3	.3	14	30.9	135	92	67	4	0	1	0		
BROWNSVILLE	89	77	92	70	83	1	2.0	1.4	2.0	2.0	171	12.4	140	90	64	5	0	2	1		
CORPUS CHRISTI	87	77	89	71	82	1	1.7	1.1	.5	.7	51	17.1	154	91	71	5	0	2	1		
DEL RIO	93	74	99	65	83	3	1.2	1.5	1.2	1.2	98	5.1	49	82	54	5	0	1	1		
EL PASO	94	65	103	62	80	0	1.0	1.1	.0	.0	0	1.8	101	36	15	5	0	0	0		
FORT WORTH	89	71	95	66	80	3	1.6	1.7	1.0	1.6	103	17.4	98	87	57	3	0	3	1		
GALVESTON	86	78	87	71	82	2	1.7	1.7	1.7	1.7	98	28.4	183	85	78	0	0	2	1		
HOUSTON	90	75	92	71	83	3	1.9	1.4	1.1	1.9	75	33.1	152	89	61	5	0	3	2		
LUBBOCK	90	63	97	56	76	0	1.7	1.7	1.7	1.7	1	5.0	79	70	23	4	0	1	0		
MIDLAND	90	66	97	59	78	-1	3.1	2.7	3.1	3.1	495	7.5	146	87	27	4	0	1	1		
SAN ANGELO	91	71	100	63	81	2	1.6	1.1	.4	.6	51	8.0	93	82	39	3	0	2	0		
SAN ANTONIO	88	74	92	65	81	0	1.7	1.3	1.7	1.7	98	22.6	168	85	65	3	0	3	1		
VICTORIA	87	75	89	70	81	1	1.5	1.4	.9	1.5	79	30.2	172	92	66	0	0	3	1		
WACO	90	72	95	66	81	1	1.4	1.6	.7	1.4	95	17.7	116	88	56	5	0	4	2		
WICHITA FALLS	86	66	92	63	76	-1	1.9	1.1	1.9	1.9	110	17.7	120	93	52	2	0	3	2		
UT CEDAR CITY	71	42	82	33	57	-8	1.6	1.5	.5	.7	450	7.5	149	75	27	0	0	3	0		
SALT LAKE CITY	68	48	82	43	58	-9	1.3	1.1	.2	.7	166	12.2	141	85	32	0	0	5	0		
VT BURLINGTON	72	52	83	46	62	-2	1.6	1.2	.4	1.3	99	12.9	100	93	49	0	0	5	0		
VA NORFOLK	86	69	97	57	78	5	1.1	1.8	.1	2.6	175	22.2	115	79	46	3	0	1	0		
RICHMOND	87	65	96	53	76	3	1.6	1.2	.6	1.7	125	24.2	133	84	44	3	0	2	1		
ROANOKE	86	62	93	53	74	4	1.1	1.6	.1	1.2	92	21.5	122	82	43	3	0	2	0		
WA QUILLAYUTE	62	50	65	46	56	1	2.1	1.3	1.5	2.2	154	41.0	78	97	55	0	0	6	1		
SEATTLE-TACOMA	64	51	69	49	58	-2	1.4	1.0	.7	1.6	235	18.2	104	91	49	0	0	6	1		
SPOKANE	68	46	75	41	57	-3	1.7	1.3	.7	1.7	45	6.9	85	87	36	0	0	3	0		
YAKIMA	72	47	81	38	59	-4	1.2	1.0	.1	.7	288	3.9	100	78	37	0	0	3	0		
WV BECKLEY	79	58	84	47	69	3	1.3	1.6	.2	1.5	103	18.9	105	89	49	0	0	3	0		
CHARLESTON	84	62	91	49	73	3	1.8	1.1	.4	2.2	158	17.5	96	94	55	2	0	3	0		
HUNTINGTON	84	62	90	45	73	5	1.7	1.1	.5	3.2	243	19.4	103	93	52	1	0	3	0		
PARKERSBURG	84	62	89	45	73	4	1.5	1.4	.4	1.1	77	18.7	100	96	50	0	0	2	0		
WI GREEN BAY	75	55	82	48	65	2	2.1	1.3	1.7	2.1	152	12.8	119	91	51	0	0	3	1		
LACROSSE	78	59	85	53	68	1	1.2	1.3	.8	1.4	92	18.3	159	92	52	0	0	3	1		
MADISON	77	56	82	45	67	1	2.6	1.7	2.0	3.0	210	18.3	150	88	52	0	0	2	2		
MILWAUKEE	72	55	78	49	64	1	2.2	1.5	1.2	3.6	284	18.6	140	86	40	0	0	2	2		
WAUSAU	73	53	83	45	63	0	2.7	1.8	2.2	2.7	170	15.6	133	99	61	0	0	4	1		
WY CASPER	68	48	78	45	58	-3	1.5	1.1	.3	1.8	274	9.2	143	82	33	0	0	3	0		
CHEYENNE	67	45	77	39	56	-4	1.4	1.1	.3	2.0	234	8.2	128	80	34	0	0	4	0		
LANDER	68	46	76	42	57	-4	1.4	1.1	.3	2.0	234	8.2	128	80	34	0	0	4	0		
SHERIDAN	67	47	77	44	57	-3	1.5	1.1	.3	2.0	234	8.2	128	80	34	0	0	4	0		

Based on 1961-90 normals.

National Agricultural Summary

June 7 - 13, 1993

HIGHLIGHTS: Cool weather was reported in the West as rain showers extended from the Rockies through the Great Plains and into the Ohio Valley. Hot, dry conditions were reported in the Southeast. Crops were generally in fair to good condition. As weather permitted, farmers throughout the Nation were busy applying fertilizers and chemicals, and planting and harvesting grain and hay crops. Supplemental feeding for livestock was needed in areas where pastures were short.

SMALL GRAINS: Winter wheat headed for the 19 major producing States averaged 90 percent (%), compared with 95% last year and the 5-year average of 93%. Harvest of the crop was 6% complete, compared with 4% a year ago at this time and 11% average. Growers in Kansas were concerned that cool weather conditions were suitable for foliar diseases. California growers made good progress. Overall crop condition for the 19 major States was rated mostly good. Spring wheat condition in the five major producing States improved from the previous week. Crop development in the upper Midwest increased as temperatures moved closer to seasonal levels. The condition of small grains were mostly good to excellent.

CORN: Corn planting reached 96% complete, compared with 100% last year and 98% average. Missouri and South Dakota had less than 90% of their crop planted and were behind the average. Corn condition was rated mostly fair to good in the 17 major producing States. Crop development in Iowa, Minnesota, and Kansas improved as higher temperatures were experienced during the week. Intended corn acreage in parts of the Southeast may get diverted to other crops. Warm conditions in the Texas High Plains promoted growth. Corn fields in south Texas benefited from recent rains by showing increased growth.

SOYBEANS: Soybean planting progress in the 19 major producing States reached 72% complete, compared with 89% last year and 82% average. Variable weather conditions across much of the country continued to cause delays. Excessive rainfall in the central and upper Midwest limited the number of days suitable for fieldwork. South Dakota farmers had managed to plant only half their acreage, compared with 100% a year ago. Lack of moisture along with above-normal temperatures in the South also caused delay. Mississippi growers managed to complete 64% of their acreage, compared with 75% a year ago.

COTTON: Cotton acreage planted was 96% complete, compared with 92% last year and 94% average. Cotton squaring at 15% compared with 22% last year and 17% average. Hot, dry weather in Georgia held planting at a standstill. Planting progress in Oklahoma and Texas was limited due to much-needed rain. The overall condition of the crop averaged fair to good for the 14 major States.

SORGHUM: Planting progress for the 12 major producing States was slightly behind the rate of last year. Of the total acreage intended for sorghum, 76% was complete, compared with 78% a year ago. Largest gains during the week were made

in Nebraska, Kansas, and Oklahoma. Planting progress in Texas continued at a high rate. Some producers in the Coastal Bend were applying chemicals for midge control. The crop for the 12 major States was rated as being in fair to excellent condition.

RICE: Rice planting progress in the five major States reached 98% complete, compared with 100% last year and 98% average. Rice emergence was at 89%, compared with 97% last year and 93% average. Planting progress remained behind average in California. Most stands in Texas had emerged with a few early plantings beginning to head. In Arkansas, producers continued to apply herbicides as some fields were flushed to help germination.

OTHER FIELD CROPS: Peanuts continued to be in fair to good condition over parts of the Southeast. However, if high temperatures persist, some stress may become apparent in several days. Hay harvest continued over much of the Nation. Above-average hay yield was reported in parts of Tennessee. Burley tobacco in Kentucky was reported as being in fair to good condition. Plant supply has been short in some areas. Dry bean planting was active but continued to trail last year's progress in parts of Minnesota.

FRUIT AND NUTS: Due to the hot, dry weather in the Southeast, Florida citrus was showing stress. New crop fruit showed little development. Peaches in Georgia were reported as 15% very poor, 2% fair, and 83% good. South Carolina peaches were in fair to good condition, with 9% of the acreage harvested. In California, treefruit harvest continued as weather permitted. Some concerns of brown rot were reported. Major peach varieties were being harvested. Wet, cool conditions forced grape producers to treat their crops for mildew. Texas pecans were reported in good condition over most areas.

VEGETABLES: Vegetable growth continued to be slow over parts of the central and northeastern parts of the United States. Cool weather hindered the growth of most vegetables in New York. Sweet corn harvest increased as tomato harvest got underway in northern Florida. Vegetable harvest advanced seasonally in other parts of the country.

PASTURE AND LIVESTOCK: Pastures rated fair to excellent over most of the Nation. In Texas and the Southern States, additional moisture was needed to improve feed supply. Supplemental feeding was necessary in those areas. Livestock across the Nation was rated fair to good.

Crop Progress

for the Week Ending June 13, 1993

COTTON (Percent Planted)

	Current	Last Wk	1992	Avg.
AL	95	91	100	100
AZ	100	100	100	100
AR	100	99	99	99
CA	100	100	100	100
GA	96	96	97	98
LA	100	100	100	99
MS	100	97	100	99
MO	100	100	100	100
NM	100	99	99	100
NC	100	98	100	100
OK	91	83	59	79
SC	100	100	100	100
TN	100	99	100	99
TX	91	86	84	87
14 States	96	93	92	94

These 14 States produced 99% of the 1992 cotton crop.

COTTON (Percent Squaring)

	Current	Last Wk	1992	Avg.
AL	15	3	28	26
AZ	58	41	54	59
AR	2	0	18	11
CA	15	5	25	15
GA	17	6	20	23
LA	15	3	50	28
MS	13	4	38	32
MO	2	0	4	6
NM	11	0	30	33
NC	1	0	1	10
OK	0	0	6	1
SC	13	0	5	10
TN	2	0	4	6
TX	18	14	16	13
14 States	15	9	22	17

These 14 States produced 99% of the 1992 cotton crop.

GRAIN SORGHUM (Percent Planted)

	Current	Last Wk	1992	Avg.
AR	95	91	99	94
CO	59	46	44	56
IL	54	42	89	77
KS	60	30	55	70
LA	93	90	96	90
MS	93	82	96	91
MO	63	55	93	78
NE	84	67	99	96
NM	35	30	52	NA
OK	81	63	61	57
SD	66	45	82	72
TX	88	86	83	85
12 States	76	63	78	NA
Excl. States with NA	77	63	78	81

These 12 States produced 99% of the 1992 grain sorghum crop.

WINTER WHEAT (Percent Headed)

	Current	Last Wk	1992	Avg.
AR	100	100	100	100
CA	99	99	99	99
CO	95	82	95	88
GA	100	100	100	100
ID	25	8	72	38
IL	98	93	100	100
IN	99	74	95	97
KS	100	100	100	100
MI	50	15	75	65
MO	99	87	100	100
MT	19	2	55	43
NE	96	72	100	98
NC	100	100	100	100
OH	94	80	92	94
OK	100	100	100	100
OR	93	82	97	86
SD	56	23	87	65
TX	100	100	100	100
WA	80	59	98	83
19 States	90	83	95	93

These 19 States produced 90% of the 1992 winter wheat crop.

WINTER WHEAT (Percent Harvested)

	Current	Last Wk	1992	Avg.
AR	9	0	9	32
CA	20	10	20	17
CO	0	0	0	0
GA	51	21	37	69
ID	0	0	0	0
IL	0	0	1	3
IN	0	0	0	0
KS	0	0	2	4
MI	0	0	0	0
MO	0	0	0	12
MT	0	0	0	0
NE	0	0	0	0
NC	29	3	7	30
OH	0	0	0	0
OK	7	5	9	27
OR	0	0	0	0
SD	0	0	0	0
TX	34	16	15	28
WA	0	0	0	0
19 States	6	3	4	11

These 19 States produced 90% of the 1992 winter wheat crop.

CORN (Percent Planted)

	Current	Last Wk	1992	Avg.
CO	100	95	100	99
GA	100	100	100	100
IL	97	95	100	98
IN	99	98	100	97
IA	95	88	100	99
KS	100	97	99	100
KY	99	96	100	96
MI	100	97	99	100
MN	96	90	99	97
MO	89	86	100	96
NE	100	99	100	100
NC	100	100	100	100
OH	100	100	100	92
PA	95	88	95	90
SD	82	76	100	98
TX	100	100	100	100
WI	90	85	100	99
17 States	96	93	100	98

These 17 States produced 94% of the 1992 corn crop.

SOYBEANS (Percent Planted)

	Current	Last Wk	1992	Avg.
AL	76	60	73	67
AR	54	37	55	53
GA	63	47	60	67
IL	81	71	97	92
IN	89	84	100	83
IA	60	45	100	94
KS	60	35	65	70
KY	57	45	57	57
LA	81	73	79	65
MI	95	85	96	90
MN	73	61	99	94
MS	64	36	75	60
MO	53	44	81	68
NE	90	68	100	97
NC	73	60	61	62
OH	98	93	98	80
SC	60	49	51	62
SD	50	45	100	95
TN	61	36	64	57
19 States	72	59	89	82

These 19 States produced 95% of the 1992 soybean crop.

RICE (Percent Planted)

	Current	Last Wk	1992	Avg.
AR	98	93	100	98
CA	95	90	99	99
LA	100	98	100	99
MS	96	80	100	96
TX	100	95	100	100
5 States	98	93	100	98

These 5 States produced 97% of the 1992 rice crop.

SPRING WHEAT (Percent Headed)

	Current	Last Wk	1992	Avg.
ID	0	NA	37	13
MN	1	NA	4	12
MT	1	NA	2	6
ND	0	NA	3	6
SD	0	NA	33	26
5 States	0	NA	9	10

These 5 States produced 96% of the 1992 spring wheat crop.

RICE (Percent Emerged)

	Current	Last Wk	1992	Avg.
AR	90	76	98	92
CA	75	50	90	89
LA	98	96	98	97
MS	85	63	97	88
TX	91	88	95	98
5 States	89	77	97	93

These 5 States produced 97% of the 1992 rice crop.

Crop Condition
(Percent)

for the Week Ending June 13, 1993

RICE

State	VP	P	F	G	EX
AR	0	5	48	47	0
CA	0	0	15	85	0
LA	0	1	51	48	0
MS	0	16	79	5	0
TX	0	0	27	66	7
5 State	0	4	45	50	1
Prev Week	0	6	50	43	1
Prev Year	0	0	49	48	3

WINTER WHEAT

State	VP	P	F	G	EX
AR	0	14	52	34	0
CA	0	0	15	65	20
CO	2	5	14	66	13
GA	0	2	56	39	3
ID	1	2	17	68	12
IL	0	3	36	60	1
IN	0	1	22	73	4
KS	1	3	19	53	24
MI	3	10	30	45	12
MO	0	18	65	16	1
MT	2	8	26	44	20
NE	0	0	13	72	15
NC	0	0	30	67	3
OH	1	8	26	50	15
OK	0	0	52	46	2
OR	0	2	7	52	39
SD	0	3	9	72	16
TX	0	3	44	47	6
WA	0	0	9	87	4
19 State	1	3	30	53	13
Prev Week	1	3	25	54	17
Prev Year	7	14	44	32	3

CORN

State	VP	P	F	G	EX
CO	0	2	13	72	13
GA	18	27	41	14	0
IL	0	0	24	74	2
IN	0	3	36	57	2
IA	0	7	52	40	1
KS	0	7	21	47	25
KY	0	0	23	73	4
MI	2	8	30	45	15
MN	2	20	59	19	0
MO	0	4	53	43	0
NE	0	0	12	84	4
NC	0	6	23	71	0
OH	0	3	24	59	14
PA	0	8	25	51	16
SD	1	5	30	61	3
TX	0	3	27	52	18
WI	1	17	56	24	2
17 State	1	6	36	53	4
Prev Week	2	7	40	47	4
Prev Year	1	6	41	47	5

SPRING WHEAT

State	VP	P	F	G	EX
ID	0	1	11	75	13
MN	1	6	29	51	13
MT	2	11	29	43	15
ND	0	0	13	75	12
SD	0	1	11	63	25
5 State	0	3	17	65	15
Prev Week	0	2	20	69	9
Prev Year	5	17	35	42	1

SORGHUM

State	VP	P	F	G	EX
AR	0	5	56	39	0
CO	0	3	22	67	8
IL	N/A	N/A	N/A	N/A	N/A
KS	1	8	12	51	28
LA	0	2	63	35	0
MS	0	0	68	32	0
MO	0	3	54	43	0
NE	0	0	19	81	0
NM	5	10	30	55	0
OK	0	0	31	69	0
SD	0	13	14	72	1
TX	0	6	27	49	18
12 State	0	6	25	55	14
Prev Week	N/A	N/A	N/A	N/A	N/A
Prev Year	2	6	38	47	7

COTTON

State	VP	P	F	G	EX
AL	0	3	70	27	0
AZ	0	0	10	75	15
AR	0	6	54	40	0
CA	0	0	10	90	0
GA	1	30	45	24	0
LA	0	12	38	50	0
MS	5	7	80	8	0
MO	0	0	64	36	0
NM	1	6	50	43	0
NC	0	0	36	64	0
OK	0	0	20	80	0
SC	0	15	73	12	0
TN	0	3	81	15	1
TX	0	1	40	57	2
14 State	1	4	45	49	1
Prev Week	2	6	49	42	1
Prev Year	11	17	40	29	3

SOYBEANS

State	VP	P	F	G	EX
AL	0	10	46	44	0
AR	0	6	51	43	0
GA	5	25	46	24	0
IL	0	3	30	65	2
IN	1	4	41	52	2
IA	N/A	N/A	N/A	N/A	N/A
KS	4	6	11	64	15
KY	0	0	25	69	6
LA	0	5	40	55	0
MI	0	5	30	50	15
MN	2	25	52	21	0
MS	0	1	54	45	0
MO	0	3	52	45	0
NE	0	0	10	89	1
NC	0	3	34	63	0
OH	1	6	26	54	13
SC	0	22	63	15	0
SD	2	8	35	54	1
TN	0	0	23	77	0
19 State	1	7	37	52	3
Prev Week	N/A	N/A	N/A	N/A	N/A
Prev Year	0	5	44	48	3

VP - Very Poor P - Poor F - Fair
G - Good EX - Excellent

State Summaries of Weather and Agriculture

These summaries provide brief descriptions of crop and weather conditions important on a national scale. More detailed data are available in Weather and Crop Bulletins published each Monday by NASS State Statistical Offices in cooperation with the National Weather Service.

ALABAMA: Rainfall none to 1.35 in. north; none to 0.56 in. central; none to 0.62 in. south. Temperatures 2 to 6° above normal north, south; 3 to 7° above normal central. Lows 59 to 70° north; 64 to 69° central, south. Highs 90 to 96° north; 91 to 98° central; 94 to 99° south.

Days suitable for fieldwork 6.7. Soil moisture 95% short, 5% adequate. Corn silked 18%, 29% 1992, 54% avg.; 12% very poor, 29% poor, 29% fair, 30% good. Sorghum planted 58%, 57% 1992, 74% avg.; 5% very poor, 9% poor, 45% fair, 41% good. Peanuts pegged 4%, 11% 1992, 13% avg.; 85% fair, 15% good. Wheat turning color 90%, 100% 1992, 100% avg.; harvested 23%, 37% 1992, 58% avg.; 5% poor, 47% fair, 48% good. Hay harvested 82%, 81% 1992, 81% avg. Pasture 2% very poor, 14% poor, 63% fair, 21% good. Primary activities: Planting cotton, soybeans, vegetables; applying fertilizer; spraying fruit; marketing cattle; general care of livestock, poultry, catfish.

ALASKA: Hot, dry weather stressed non irrigated crops in parts of the Mat-Su, Delta, Kenai regions. Rain during the week brought some much needed moisture to the Fairbanks area.

Days suitable for fieldwork 6. Average height of small grain was 6 in. Commercial potatoes were approximately 6 in. height by weekend. Vegetable transplanting continues. Rate of crop growth was 20% slow, 70% moderate, 10% rapid. Topsoil, subsoil moisture 70% short, 30% adequate. All oats, barley, mixed grain were in preboot or earlier stage.

ARIZONA: Sunny, cool most areas first part of period, warming up by week's end. Precipitation limited except scattered showers 5th, north, northwest, central. Temperatures 4° below to 8° below normal. Extremes 26°; 98°, higher elevations; 43°; 110° deserts.

Cotton squaring 58%, 54% 1992, 59% avg.; setting bolls 8%, 2% 1992, 12% avg. Activities included: Irrigating, pesticide applications, pest monitoring, cultivating. Cotton 10% fair, 75% good, 15% excellent. Insects, weeds mostly light. Alfalfa good to excellent. Harvest active central, east; moderate western, south central. Weeds light to moderate, insects mostly light; disease light. Small grains harvested 73%, 61% 1992, 69% avg. Fields good to excellent. Bell peppers, chile peppers, grapes, watermelons, honeydews, cantaloupes, harvested in western areas. Cabbage, carrots, sweet corn, mixed greens, green onions, chile peppers, dry onions, grapes, potatoes, squash, grapefruit harvested central areas. Tomatoes, head lettuce, dry onions, cherries harvested eastern.

ARKANSAS: Temperatures above normal. Southeastern region continued to be dry, with scattered thunderstorms across the central, northern regions. Extremes 58°; 97°. Rainfall none to 3.53 in.

Days suitable for fieldwork 6. Moderate rate of crop growth. Soil moisture 44% short, 42% adequate, 14% surplus. Wheat poor to good, harvesting has begun. Producers continued to apply herbicides to rice fields, some rice fields flushed to help germination. Corn irrigation began in some areas. Corn, sorghum, cotton, soybean cultivation continued. Some cotton fields sprayed for thrips, weevils. Fruit, vegetable crops good. Livestock good, external parasite problems reported. Pastures good, hay cuttings continued.

CALIFORNIA: Early part of the week finished off the rain that began the previous week. Then a more summer-like pattern arrived. State dried out, warmed up from 8th through 11th. Rain during the early part of the week was in the form of showers, thunderstorms.

Cool temperatures, precipitation curtailed work many areas. Wheat harvest continued. Wet weather slowed activity. Lodging problems small grains some areas. Rice seeding winding down, behind normal. Fertilizer, herbicide application ongoing. Cotton development hampered by cool temperatures many areas. Desert

fields developing rapidly. Cotton crop treated mites, aphids, lygus. Sugarbeets irrigated, mildew treated. Corn planted, irrigated, sprayed weeds. Winter forage silage, greenchop cut. Safflower fields blooming. Alfalfa, oats, sudangrass hay cut. Rainfall on drying hay downgrade quality, value. Treefruit harvest continued. Following rains, brown rot concern. Apricots active. Major variety peach picked, June Lady. May Diamond nectarines picked. Black Beaut, Santa Rosa plums moved. Grape growers treat mildew, nematodes. Table grape harvest continued, Riverside, Thompsons active, Perlette, Flame Seedless near completion. Worm sprays applied almond, apple orchards. Olives, rain beneficial, development slow, cool weather. Valencia orange harvest continued. New Navel orange crop developing well. Grapefruit harvest Coachella Valley near completion. Avocado harvest continued. Intermittent rains caused some splitting in tomatoes, necessitated fungicide applications. Asparagus harvest continued at reduced levels San Joaquin delta region. Broccoli harvest moderate, Salinas-Watsonville; fairly light, Santa Maria; generally good quality both. Bell pepper harvest began Kern County, ongoing Coachella Valley of Riverside County. Planting bell peppers continued Merced County. Imperial carrot harvest trailing off. Central coast cauliflower harvest fairly light. Santa Maria celery harvest moderate, variable quality. Fresh market tomato harvesting continued Coachella, Imperial Valleys. Fresh market tomato harvest began westside Fresno County. Processing tomato harvest continued Imperial County. Head lettuce harvest moderate, central coast. Harvest leaf lettuce, Salinas-Watsonville moderate with variable quality. Romaine lettuce harvest fairly heavy, Salinas-Watsonville. Onions harvested Imperial, Fresno, San Jacinto districts. Honeydews and watermelons harvested; Riverside, Imperial. Melon planting continued; Merced, Tulare. Squash harvested Imperial, Riverside. Other crops harvested included: Chili peppers, cucumbers, eggplant, garlic, green beans, green onions, okra, oriental vegetables. Rangeland continues to dry, feed adequate, good quality. Temperatures cooler than normal. Heavy vegetation causing extreme fire hazard many areas. Bees in melon, seed alfalfa fields for pollination.

COLORADO: On the 7th, strong winds of up to 90 m.p.h. near the Front Range were accompanied by cool temperatures a few showers in mountains, east. Winds decreased on 8th, a few showers, thunderstorms continued in the mountains, east. Heavy snow in some mountain locations. Spotty showers persisted on 9th, 10th through 12th was mostly dry with gradually warming temperatures. Temperatures were on the cold side statewide for the period. Most locations temperatures 2 to 5° below normal for this time of year.

Days suitable for fieldwork 5.7. Soil moisture 1% very short, 20% short, 74% adequate, 5% surplus. Alfalfa 1st cutting 43%, 51% 1992, 39% avg. Spring barley headed 23%, 29% 1992, 29% avg. Oats headed 27%, 52% 1992, 28% avg. Sugarbeets thinned 66%, 82% 1992, 66% avg. Dry beans planted 60%, 51% 1992, 53% avg.; emerged 23%, 25% 1992, 17% avg. Sorghum planted 59%, 44% 1992, 56% avg.; emerged 33%, 24% 1992, 32% avg. Corn 2% poor, 13% fair, 72% good, 13% excellent. Fall potatoes 58% emerged 55% 1992, 28% avg. Frost in the San Luis Valley did slight damage to potatoes. Winter wheat headed 95%, 95% 1992, 88% avg.; 2% very poor, 5% poor, 14% fair, 66% good, 13% excellent. Livestock mostly good to excellent. Pasture, range feed excellent.

FLORIDA: Hot, dry across State most of week. Highs; upper 90s to near 100° northern areas, upper 80s to low 90s Atlantic coast. Lows; mid 60s north to mid 70s southeast. Isolated showers occurred 7th thru 10th. Showers, thunderstorms more numerous 11th, weekend. Rain amounts varied from none to locally 1.00 to 3.00 in.

Soil moisture mostly short, scattered areas of adequate moisture. Winter wheat harvest virtually complete. Cotton, peanut planting virtually complete. Soybean planting active where soil moisture available. Haying active. Dry land crops under stress from drought

most areas. Sugarcane, tobacco, other irrigated crops making good progress. All citrus hot and dry this week, all types irrigation in use. New crop fruit progressing slowly. Very little new growth. Valencia harvest slowing. Grapefruit harvest all but complete. Caretakers cutting cover crops, spraying, fertilizing. Season complete most crops central areas. Sweet corn harvesting increasing, tomato harvest started north. Volume leaders: Watermelons, potatoes, tomatoes, sweet corn, cucumbers. Also available: Snap beans, cabbage, carrots, celery, eggplant, peppers, radishes, squash, cherry tomatoes. State's pastures very poor to excellent. Pasture ratings, 15% very poor, 25% poor, 45% fair, 10% good, 5% excellent. State's cattle herds fair to good.

GEORGIA: Hot week, wide range rain totals. Most areas rain 1 to 2 days during week, some areas no rain. Rainfall generally under 0.50 in. but number of locations northwest, isolated spots central, south 1.00 to 3.00 in. Temperatures 4 to 7° above normal. Coolest upper 50s northeast, middle 60s central, upper 60s south. Highs lower 90s northeast to 100 to 103° many locations central, south.

Days suitable for fieldwork 6.7. Soil moisture 51% very short, 45% short, 4% adequate. Corn sharply lower, development week or more behind average. Cotton planting at standstill, down. Sorghum 17% poor, 74% fair, 9% good; 72% planted, 75% 1992, 81% avg.; planting slows, condition off sharply. Peanuts 2% very poor, 24% poor, 45% fair, 29% good; 99% planted, 100% 1992, 100% avg.; 20% blooming, 22% 1992, 35% avg.; 3% pegging, 6% 1992, 8% avg.; planting at standstill, condition down. Soybeans condition down, farmers planting in dry soils. Tobacco 6% very poor, 25% poor, 38% fair, 31% good. Wheat harvest active. Watermelons 9% very poor, 4% poor, 75% fair, 12% good. Other vegetables 18% poor, 49% fair, 33% good. Apples 100% good. Peaches 15% very poor, 2% fair, 83% good; 32% harvested, 34% 1992, 44% avg. Hay, pasture plunge, supplemental feeding. Cattle, hogs fair to mostly good.

HAWAII: Warm weather prevailed. Record high temperatures in Honolulu over weekend. Water usage up, consumer conservation warnings issued Honolulu. Temperatures mid 60s to high 80s. Rainfall none to 2.00 in.

Farming activities continued on schedule. Irrigation usage activities continued on schedule. Irrigation usage increased in areas with dry weather. Spraying efforts minimized insect, disease infestations. Banana production steady, near last weeks level. Papaya shipments lower. Watermelon picking active; crop condition, progress excellent.

IDAHO: Temperatures 3 to 7° below normal. Precipitation 0.06 to 2.42 in. north; 0.56 to 1.13 in. southwest; 0.89 to 1.73 in. south-central; 0.64 to 1.88 in. east.

Days suitable for fieldwork 4. Soil moisture 1% short, 79% adequate, 20% surplus. Spring wheat planted 99%, 100% 1992, 100% avg. Spring wheat emerged 96%, 100% 1992, 100% avg. Spring wheat 70% not yet jointed, 25% jointed, 5% booted. Spring barley planted 99%, 100% 1992, 100% avg.; emerged 96%, 100% 1992, 100% avg. Spring barley 73% not yet jointed, 23% jointed, 4% booted. Oats planted 98%, 100% 1992, 100% avg.; emerged 92%, 100% 1992, 98% avg. Potatoes planted 97%, 100% 1992, 100% avg.; emerged 69%, 92% 1992, 72% avg. Sugarbeets emerged 100%, 100% 1992, 100% avg.; thinned 47%, 92% 1992, 78% avg. Dry peas planted 100%, 100% 1992, 100% avg.; emerged 100%, 100% 1992, 100% avg. Lentils emerged 100%, 100% 1992, 100% avg. Field corn planted 98%, 100% 1992, 98% avg.; emerged 90%, 94% 1992, 91% avg. Dry beans planted 66%, 93% 1992, 78% avg.; emerged 37%, 55% 1992, 36% avg. Alfalfa first cutting 30%, 74% 1992, 39% avg. Irrigation water supplies 1% poor, 5% fair, 78% good, 16% excellent. Activities: Irrigation, weed control, thinning beets, hoeing onions, field scouting, fertilizing, hilling potatoes. Pasture, range condition 98% of normal. Livestock mostly good condition.

ILLINOIS: A frontal system stalled over the State last week, bringing numerous thunderstorms, precipitation averaging 2.00 to

4.00 in. north, 0.60 to 1.20 in. average accumulation elsewhere. Temperatures above normal, with highs of 77 to 87°, lows 57 to 70°.

Days suitable for fieldwork 2.25. Unfavorable weather delayed fieldwork, slowed crop development. Excessive rains in the north caused flooding problems of crop acreage, while some severe storms, hail, strong winds have also contributed to crop damage. In general most crops are reported in good condition as farmers continued planting, cutting, baling hay, applying nitrogen, anhydrous ammonia, post-emergence herbicides, pesticides, cultivating soils, digging drainage ditches, tending livestock.

INDIANA: High temperatures around 80° north to the mid to upper 80s in the south which was normal to 3° above normal. Lows around 60° far north to the mid to upper 60s south which was 2 to 8° above normal. Rainfall 0.40 to 1.70 in. central, southeast to 1.40 to 3.25 in. north, southwest.

Days suitable for fieldwork 2. Rain continued to halt all fieldwork. Severe storms flooded fields, lodged wheat fields. Pastures are rated 97% of normal, 96% last week. Wheat crop ratings remain unchanged, 77% good to excellent. Topsoil rated 3% short, 38% adequate, 59% surplus. Subsoil moisture 60% adequate, 40% surplus. Corn 95% emerged, 100% 1992, 87% avg.; 9 in. high, 12 in. 1992, 15 in. avg. Soybeans 81% emerged, 98% 1992, 74% avg. Alfalfa hay 1st cutting 61%, 75% 1992, 74% avg.

IOWA: Temperatures 1 to 4° above normal. Extremes 49°, 88°. Rainfall 0.43 in. west central to 5.57 in. southeast; average 2.08 in. (normal 1.07 in.). Wettest week of the year.

Days suitable for fieldwork 2.6. Topsoil 36% adequate, 64% surplus. Subsoil 22% adequate, 78% surplus. Fertilizer application 95%, 100% 1992, 100% normal. Primary seedbed preparation completed 90%, 100% 1992, 100% normal. Oats headed 10%, 45% 1992, 51% normal. Corn replanted or to be replanted 4%; emerged 80%, 100% 1992, 96% normal; stand 87%. Soybeans emerged 30%, 97% 1992, 84% normal. First crop alfalfa hay harvested 15%, 78% 1992, 65% normal. Oat 1% very poor, 10% poor 41% fair, 44% good, 4% excellent. Winter wheat 2% very poor, 6% poor, 46% fair, 41% good, 5% excellent. Pasture 1% very poor, 5% poor, 14% fair, 58% good, 22% excellent. Hay 2% very poor, 12% poor, 32% fair, 46% good, 8% excellent. Corn cultivated for the first time 1%, 57% 1992, 54% normal. Unplanted land is very wet with considerable ponding. There is significant crusting on top, very wet underneath. Conditions for livestock improved with some warm, sunny days.

KANSAS: Temperatures 3 to 4° below normal southwest, northeast. Other districts were near normal. Precipitation received all districts. Amounts were light to moderate, with averages 0.01 to 0.91 in.

Days suitable for fieldwork 5.0. All districts experienced at least 3 days suitable. Topsoil 16% short to very short, 66% adequate, 18% surplus. Subsurface 7% short, 76% adequate, 17% surplus. Corn planting 100%, 100% avg. Wet, cool conditions have slowed corn growth; 72% good to excellent, 21% fair, 7% poor to very poor. Sorghum 60% planted compared, 70% avg. Soybeans planted 60%, 70% avg. Wheat 55% turning color, 80% avg. Growth still behind normal. Diseases pressure in wheat is widespread. Because of ideal conditions, pressure from foliar diseases is becoming more intense. Some wheat is ripening in a few southwest counties. Wheat 77% good to excellent, 19% fair, 4% poor to very poor. Alfalfa 85% cut the first time; weevils are reaching treatment levels in many areas of central, eastern areas. Pastures very good. Stockwater supplies are adequate to surplus.

KENTUCKY: Summer weather, highs 80s and lower 90s with overnight lows 50s to low 60s. Temperatures averaged mid to upper 70s, 3 to 5° above normal. Rain all stations, amounts varied greatly. Several received 3.00 to 6.00 in., others received less than 0.50 in.

Days suitable fieldwork 3.2. Soil moisture 1% very short, 9% short, 65% adequate, 25% surplus. Turbulent weather with excessive rain, wind, hail caused flooding, crop damage. Some replanting corn, soybeans, resetting tobacco. Single crop soybeans mostly planted; double crop will primarily follow wheat harvest. Wheat harvest just beginning; should become active end of week. Tobacco 80% set,

progress behind 1992, avg. Plant supply short some areas. Set tobacco fair to good, 90% under 12 in. height. Pastures, hay crops mostly good to excellent condition.

LOUISIANA: Temperatures 1.9 to 4.2° above normal. Extremes 61°; 96°. Rainfall 0.07 in. east central to 0.95 in. southeast.

Days suitable for fieldwork 6.8. Soil moisture 24% very short, 56% short, 20% adequate. Corn 4% poor, 59% fair, 34% good, 3% excellent; 31% silked, 75% 1992, 64% avg.; 3% dough stage, 15% 1992, 12% avg. Moisture needed for good development. Cotton 99% emerged, 100% 1992, 96% avg. Dry conditions slowed growth. Hay 82% first cutting, 70% 1992, 63% avg. Peaches 1% poor, 69% fair, 30% good; 16% harvested, 28% 1992, 22% avg. Harvest active. Rice 3% headed, 5% 1992, 3% avg. Sorghum 89% emerged, 92% 1992, 86% avg.; 0% headed, 4% 1992, 2% avg. Planting halted due to lack of moisture. Soybeans 75% emerged, 76% 1992, 56% avg. Planting halted due to lack of moisture. Spring plowing 99% plowed, 100% 1992, 96% avg. Sweet potatoes 46% poor, 53% fair, 1% good; 50% planted, 51% 1992, 57% avg. Wheat 7% very poor, 49% poor, 25% fair, 19% good; 83% harvested, 79% 1992, 84% avg. Sugarcane 2% poor, 20% fair, 68% good, 10% excellent. Farmers worked fallow land, layby was active. Livestock 35% fair, 59% good, 6% excellent. Pastures 4% very poor, 8% fair, 88% good. Rain needed most areas. Vegetables 2% poor, 53% fair, 45% good.

MARYLAND & DELAWARE: **MARYLAND:** Precipitation 1.27 in. Temperature 72.3°, normal 70.9°. Extremes 46°; 96°.

Days suitable for fieldwork 5.6. Topsoil 95% adequate, 5% surplus. Subsoil 89% adequate, 11% surplus. Small grains fair to mostly good. Wheat 42% turned, 28% 1992, 50% avg. Barley 96% turned, 90% 1992, 92% avg.; 7% harvested, 4% 1992, 20% avg. Rye 40% turned, 39% 1992, 67% avg.; 0% harvested, 13% 1992, 19% avg. Oats 55% headed, 48% 1992, 53% avg.; 3% turned, 4% 1992, 8% avg. Corn for grain 98% planted, 99% 1992, 97% avg. Sweet corn 85% planted, 89% 1992, 87% avg. Soybeans 53% planted, 65% 1992, 60% avg. Sorghum 57% planted, 61% 1992, 77% avg. Pasture excellent condition; hay supplies adequate. Alfalfa hay 93% first cut, 86% 1992, 89% avg. Other hay 77% first cut, 60% 1992, 68% avg. Strawberries 70% harvested, 61% 1992, 79% avg. Tobacco 65% transplanted, 80% 1992, 74% avg. Peaches, apples mostly fair to good; fruit set is average.

DELAWARE: Precipitation 0.74 in. Temperature 71.8°, normal 71.3°. Extremes 52°; 93°.

Days suitable for fieldwork 5.3. Topsoil 33% short, 50% adequate, 17% surplus. Subsoil 17% short, 67% adequate, 16% surplus. Small grains fair to mostly good. Wheat 14% turned, 38% 1992, 73% avg. Barley 22% harvested, 13% 1992, 22% avg. Rye 48% turned, 36% 1992, 51% avg. Soybeans 60% planted, 49% 1992, 61% avg. Sorghum 77% planted, 95% 1992, 98% avg. Sweet corn 99% planted, 92% 1992, 91% avg. Strawberries 89% harvested, 67% 1992, 83% avg. Alfalfa hay 95% first cut, 98% 1992, 95% avg. Other hay 93% first cut, 97% 1992, 86% avg. Pastures very good, hay supplies adequate. Peach, apple crop fair to mostly good condition, fruit set average.

MICHIGAN: Extremes 42°; 85°. Precipitation 0.38 to 4.60 in. across State.

Days suitable for fieldwork 4.5. Soil moisture 70% adequate, 30% surplus. Dry Beans 45% planted, 70% 1992, 50% avg.; 20% emerged, 35% 1992, 25% avg. Oats 5% headed, 5% 1992, 10% avg.; 2% very poor, 8% poor, 30% fair, 50% good, 10% excellent. Soybeans 70% emerged, 80% 1992, 75% avg. Hay 20% first cutting, 45% 1992, 45% avg.; 5% very poor, 15% poor, 30% fair, 40% good, 10% excellent. Pasture 85% of normal. Major activities: Cutting, raking hay, spraying, pruning, cultivating, planting.

MINNESOTA: Temperatures 2 to 4° above normal. Extremes 41°; 90°. Precipitation 0.09 in. below normal east-central to 1.05 in. above normal southwest. Greatest weekly precipitation 3.20 in.

Days suitable for fieldwork 2.4. Topsoil 1% short, 38% adequate, 61% surplus. Spring wheat 51% jointing, 52% 1992, 62% avg.; 1% heading, 4% 1992, 12% avg. Oats 45% jointing, 60% 1992, 67%

avg.; 3% heading, 11% 1992, 18% avg. Barley 49% jointing, 52% 1992, 61% avg.; 2% heading, 3% 1992, 13% avg. Dry bean 95% planted, 99% 1992, 99% avg. Sweet corn 69% planted, 96% 1992, 89% avg. Green peas 93% planted, 99% 1992, 97% avg. Alfalfa 33% first cutting, 70% 1992, 52% avg. Corn 96% planted, 99% 1992, 97% avg.; 81% emerged, 99% 1992, 95% avg.; 17% cultivated once, 56% 1992, 51% avg.; 5% height, 9% 1992, 9% avg. Soybeans 73% planted, 99% 1992, 94% avg.; 40% emerged, 97% 1992, 82% avg.; 7% cultivated once, 24% 1992, 26% avg.; 3% height, 4% 1992, 4% avg. Spring wheat 1% very poor, 6% poor, 29% fair, 51% good, 13% excellent. Oats 1% very poor, 4% poor, 30% fair, 52% good, 13% excellent. Barley 6% poor, 25% fair, 51% good, 18% excellent. Corn 2% very poor, 20% poor, 59% fair, 19% good. Soybeans 2% very poor, 25% poor, 52% fair, 21% good.

MISSISSIPPI: Temperatures 81°, 3.8° above normal. Extremes 54°; 97°. Upper Delta received over 1.00 in. rain, rest of the State received none, average 0.21 in., 0.70 below normal. Soil temperature 85°.

Days suitable for fieldwork 6.3, 1.8 1992, 3.9 avg. Soil moisture 24% very short, 47% short, 29% adequate. Corn 96% planted, 100% 1992, 96% avg.; 89% emerged, 100% 1992, 94% avg.; 7% silked, 26% 1992 27% avg.; 10% poor, 55% fair, 34% good, 1% excellent. Cotton 98% emerged, 98% 1992, 96% avg.; 13% squaring, 38% 1992, 32% avg.; 5% very poor, 7% poor, 80% fair, 8% good. Peanuts 79% planted, 85% 1992, 88% avg. Rice 96% planted, 100% 1992, 96% avg.; 85% emerged, 97% 1992, 88% avg.; 16% poor, 79% fair, 5% good. Sorghum 93% planted, 96% 1992, 91% avg.; 85% emerged, 94% 1992, 87% avg.; 68% fair, 32% good. Soybeans 64% planted, 75% 1992, 60% avg.; 47% emerged, 65% 1992, 45% avg.; 1% poor, 54% fair, 45% good. Sweet potatoes 70% planted, 60% 1992, 78% avg.; 57% fair, 43% good. Watermelons 96% planted, 94% 1992, 97% avg.; 20% poor, 50% fair, 30% good. Wheat 86% mature, 90% 1992, 95% avg.; 22% harvested, 26% 1992, 54% avg.; 29% poor, 52% fair, 19% good. Hay 48% harvested, 48% 1992, 36% avg. Peaches 15% harvested, 36% 1992, 32% avg.; 4% very poor, 14% poor, 44% fair, 31% good, 7% excellent. Livestock 6% fair, 92% good, 2% excellent. Pasture 88% of normal. Activities: Planting soybeans.

MISSOURI: Temperatures near normal. Rainfall 1.12 in., ranging by area from 0.16 in. northeastern district to 2.30 in. southwest. Rivers at high levels.

Days suitable for fieldwork 2.4. Topsoil 39% adequate, 61% surplus. Single-crop soybean planting ranges from 33% west-central, southwest to 85% southeast. Sorghum planting ranges from about 31% west-central, central districts to 96% southeast. Most wheat not yet turning color northern districts, all turning southeast. Wheat disease showing up several areas. Alfalfa first cutting 61%, 78% 1992, 78% avg. Other hay 33%, 38% 1992, 46% avg. Pasture 7% fair, 71% good, 22% excellent.

MONTANA: Temperatures normal to 4° below normal except south-central, southeast normal to 4° above normal. Good precipitation occurred statewide.

Days suitable for fieldwork 2.8. Topsoil 13% short, 73% adequate, 14% surplus. Subsoil 26% short, 64% adequate, 10% surplus. Barley 6% poor, 25% fair, 47% good, 22% excellent. Oats 1% very poor, 9% poor, 31% fair, 42% good, 17% excellent. Sugarbeets 6% poor, 17% fair, 55% good, 22% excellent. Potatoes planted 95%, 100% 1992, 100% avg. Pasture, range feed 83% of normal. Stockwater supply 10% short, 71% adequate, 19% surplus. Movement of cattle, calves to summer ranges 87%, sheep, lambs 80%.

NEBRASKA: Temperatures normal northeast to 3° below normal south, west. Precipitation less than 0.10 in. north to 3.30 in. east.

Days suitable for fieldwork 5.1. Topsoil 3% short, 84% adequate, 13% surplus. Subsoil 78% adequate, 22% surplus. Winter wheat 3% turning, 27% 1992, 32% avg. Corn 96% emerged, 100% 1992, 99% avg. Sorghum 57% emerged, 89% 1992, 83% avg. Soybeans 62% emerged, 95% 1992, 87% avg. Dry beans 63% planted, 71% 1992. Alfalfa 10% fair, 68% good 22% excellent; 1st cutting 58% harvested, 80% 1992, 69% avg. Wild hay 5% fair, 60% good, 35% excellent. Pasture, range 99% of normal.

NEVADA: Storm system brought unseasonably cool weather, rain, late-spring snows across northern areas. High pressure rebuilt late in week, clearing skies, warming temperatures. Extremes 28°; 101°.

Alfalfa hay harvest hampered by gusty winds some areas. Combining barley, oats underway extreme south. Irrigation, hay harvest, insect, weed control, caring for livestock major activities.

NEW ENGLAND: Precipitation 0.25 to 1.28 in. north; 0.06 to 0.44 in. south. Temperatures 56 to 63° north; 61 to 69° south. Maximum temperatures 77 to 83° north; 78 to 88° south. Minimum temperatures 35 to 46° north; 27° at W. Thompson, CT, 38 to 54° rest of south.

Days suitable for fieldwork 5.9. Soil moisture 24% short, 64% adequate, 12% surplus. Available grazing 15% short, 77% adequate, 8% surplus. Fieldwork progress 2 days behind schedule. Pasture condition 85% of normal. Maine potatoes 95% planted, 100% 1992, 95% avg.; good. Maine potatoes emerged 10%, 55% 1992, 50% avg. Connecticut River Valley potatoes 100% planted, 100% 1992, 100% avg. Connecticut River Valley potatoes emerged 95%, 85% 1992, 90% avg.; good. Rhode Island potatoes 95% planted, 100% 1992, 100% avg. Rhode Island potatoes emerged 90%, 95% 1992, 90% avg.; good. Maine oats 95% planted, 100% 1992, 95% avg.; good. Maine oats emerged 80%, good. Field corn 95% planted, 95% 1992, 90% avg. Field corn emerged 65%, 80% 1992, 75% avg.; good. Sweet corn 90% planted, 90% 1992, 85% avg. Sweet corn emerged 65%, 75% 1992, 75% avg.; good. First cut hay 40% harvested, 40% 1992, 40% avg.; good. Peach set light to average; pear, cranberry set average; blueberry set average to heavy. Apple set, fruit drop average; scab infection light. Strawberry set average; 10% harvested. Shade tobacco 100% planted; good. Outdoor tobacco 80% planted; good. Major farm activities: Last acres of field crops planted. Irrigating fields, applying herbicides, insecticides. Cutting first stand of hay. Harvesting of early season vegetables and U-pick strawberries.

NEW JERSEY: Temperatures averaged near normal. Extremes 47°; 95°. Rainfall 0.44 in. north, 0.59 in. central 0.21 in. south. Heaviest 24 hour total 0.93 in. on 9th, 10th. Estimated soil moisture, in percent field capacity, averaged 67% north, 64% central, 59% south. Four inch soil temperatures averaged 65° north, 67° central, 67° south.

Soil moisture content is short to adequate depending on area. Harvesting of strawberries, asparagus, cabbage, lettuce; harvest of green beans, Fava beans beginning. Endive, escarole, leeks, lettuce (all types), parsley, pickles, peas, squash available in good supply. Moderate supply of beets, leafy greens, spinach, turnips available. Peach drop expected in some areas. Harvest active, moderate volume available for strawberries. Bloom beginning in limited areas for cranberries. Cutting of hay most areas. Pasture condition normal.

NEW MEXICO: Because of a cool start, temperatures 3° below normal north, about 1° below normal south. Extremes 27° northwest; 104° southwest. Only significant precipitation was in the northeast where one area received over 1.00 in. Only two other stations received over 0.25 in.

Days suitable for fieldwork 6.7. Soil moisture 82% short, 18% adequate. Crop conditions: Alfalfa 9% poor, 32% fair, 56% good, 3% excellent. Corn 4% poor, 17% fair, 75% good, 4% excellent. Irrigated wheat 4% poor, 18% fair, 74% good, 4% excellent. Dryland wheat 21% very poor, 40% poor, 25% fair, 14% good. Wheat crop 11% harvested. Chile 24% fair, 76% good. Onions 11% fair, 89% good. Cattle, sheep poor to good. Range, pasture 67% of normal.

NEW YORK: Rainfall below normal except in some western, northern areas. Week started cool, damp. By midweek temperatures were warmer than normal, light showers were common. Heavy thunderstorms occurred late week from Niagara Frontier to the western Adirondacks. Weekend was dry, temperatures were close to normal. Extremes 36°; 90°. Rainfall 0.15 to 1.29 in.

Days suitable for fieldwork 5.5. Soil moisture mostly adequate. Pasture condition 90% of normal. Hay fair to good. First cutting

alfalfa 20% complete, 38% 1992, 34% avg. Clo-tim 11% harvested, 37% 1992, 31% avg. Corn 93% planted, 90% 1992, 90% avg. Potatoes starting to emerge. Tree fruits fair to good. Development behind normal. Warmer temperatures should promote fruit sizing. Strawberries in full bloom, picking active in some areas. Vegetable planting continued. Onions good condition. Growth of most vegetable crops behind normal due to coolness.

NORTH CAROLINA: Temperatures 2 to 8° above normal. Precipitation 3.09 in. at Longwood to no rain at several locations.

Days suitable for fieldwork 6.1. Soil moisture 18% very short, 44% short, 38% adequate. Crop condition: Pasture 4% very poor, 4% poor, 50% fair, 42% good. Winter wheat 30% fair, 67% good, 3% excellent. Field tobacco 18% fair, 78% good, 4% excellent. Irish Potatoes 18% fair, 73% good, 9% excellent. Corn 6% poor, 23% fair, 71% good. Hay 9% poor, 23% fair, 68% good. Peaches 7% fair, 79% good, 14% excellent. Truck crops 39% fair, 61% good. Cotton 36% fair, 64% good. Peanuts 7% fair, 93% good. Soybeans 3% poor, 34% fair, 63% good. Sweet potatoes 21% fair, 79% good. Apples 17% fair, 83% good. Hay, roughage supplies 4% very short, 7% short, 75% adequate, 14% surplus. Sorghum planted 75%, 67% 1992, 67% avg. Soybeans planted 73%, 61% 1992, 62% avg. Sweet potatoes transplanted 84%, 82% 1992, 80% avg. Burley tobacco transplanted 74%, 78% 1992, 89% avg. Wheat harvested 29%, 7% 1992, 30% avg. Oats harvested 29%, 13% 1992, 34% avg. Barley harvested 40%, 16% 1992, 40% avg. Rye harvested 29%, 14% 1992, 33% avg. First cutting of the hay crop 89% completed with second cutting 43% completed. Major activities: Planting soybeans; cutting hay, harvesting small grains. Other activities: Sidedressing tobacco; applying nitrogen to corn; spraying peanuts, cotton; tending livestock.

NORTH DAKOTA: Abundant rainfall fell in all areas last week. Precipitation 1.96 in. west central to 1.24 in. east central. Temperatures near normal, although very warm temperatures at weekend were offset by early-week coolness. Extremes 37°; 89°.

Days suitable for fieldwork 3.6. Topsoil shifted from short to adequate in some areas. Topsoil moisture 2% short, 93% adequate, 5% surplus. Subsoil moisture 2% very short, 28% short, 68% adequate, 2% surplus. Emerged crops in mostly good condition, development behind last year, average due to lack of abundant sunshine, warm temperatures. Spring wheat 13% fair, 75% good, 12% excellent; durum 21% fair, 71% good, 8% excellent; barley 8% fair, 82% good, 10% excellent. Oats 13% fair, 77% good, 10% excellent; winter wheat 15% fair, 73% good, 12% excellent. Hard red spring wheat 64% emerged thru stooling 43% 1992, 45% avg.; 36% jointing and beyond, 57% 1992; 55% avg. Durum wheat 78% emerged thru stooling, 65% 1992, 62% avg.; 22% jointing and beyond; 35% 1992; 36% avg. Barley 58% emerged thru stooling, 45% 1992, 40% avg.; 42% jointing and beyond, 55% 1992; 60% avg. Oats 66% emerged thru stooling, 38% 1992, 46% avg.; 33% jointing and beyond; 62% 1992; 53% avg. Winter wheat 45% jointing, 19% 1992, 22% avg.; 51% boot and beyond, 80% 1992, 85% avg. Corn 99% planted, 100% 1992, 99% avg.; 91% emerged, 99% 1992, 92% avg.; flax 99% planted 100% 1992, 97% avg.; 88% emerged, 91% 1992, 85% avg.; potatoes 100% planted, 100% 1992, 100% avg.; 71% emerged, 90% 1992; 85% avg.; soybeans 98% planted, 100% 1992, 99% avg.; 84% emerged, 98% 1992, 91% avg.; dry beans 98% planted, 99% 1992, 99% avg.; 83% emerged, 91% 1992, 88% avg.; sunflower 96% planted, 98% 1992, 96% avg.; 73% emerged, 78% 1992, 77% avg. Average height of emerged late season crops: dry beans 2 in.; flax 3 in.; soybeans 3 in.; sunflowers 3 in.; potatoes 3 in.; corn 4 in.; sugarbeets 4 in. Post emerged herbicide application for broadleaf control 59% complete, wild oats 77%. Range, pasture conditions 86% of normal. Hay crop condition 83% of normal. Alfalfa hay first cutting 3% complete, other hay 1%. Stockwater supplies 1% very short, 4% short, 94% adequate, 1% surplus.

OHIO: A frontal system stalled over the State. Warm, moist air south of the front kept temperatures mild, especially in the south. Numerous thunderstorms developed along the front early in the period resulting in drenching downpours over the north. Scattered thunderstorms hit southern areas as the front slowly sagged south.

Temperatures 1 to 3° above normal north, 4 to 6° south. Daytime highs 78 to 80°; mean lows 60 to 66°. Heavy rains of 2.00 to 4.00 in. were common extreme north. Elsewhere, amounts 0.70 to 1.20 in., close to normal. Less than 0.50 in. fell some southern areas.

Days suitable for fieldwork 3.6. Topsoil 8% short, 65% adequate, 27% surplus. Processing tomatoes planted 90%, strawberries harvested 27%, oats headed 25%. Alfalfa 1st cut harvested 70%, other hay 1st cut harvested 50%. Pasture 4% poor, 25% fair, 60% good, 11% excellent. Hay 4% poor, 29% fair, 59% good, 8% excellent. Oats 2% very poor, 7% poor, 31% fair, 55% good, 5% excellent. Warmer temperatures improved crop growth, heavy rains caused ponding, drowning in some fields. Farmers have had difficulty getting hay made between showers. Second hay cuttings have just started in eastern areas. Vegetables are developing well. Sweet corn is developing quickly, tomatoes look good, potatoes are showing some insect stress.

OKLAHOMA: Temperatures 2° below normal south-central to 2° above normal east central. Precipitation 0.03 in. west central to 2.77 in. south central.

Days suitable for fieldwork 4.9. Topsoil 5% short, 62% adequate, 33% surplus. Subsoil 100% adequate. Wheat 52% fair, 46% good, 2% excellent; 86% soft dough, 99% 1992, 99% avg.; 7% harvested, 9% 1992, 27% avg. Oats 12% harvested, 6% 1992, 25% avg. Barley 9% harvested, 2% 1992, 18% avg. Corn 23% tasselling, 6% 1992, 5% avg. Sorghum 31% fair, 69% good; 81% planted, 61% 1992, 57% avg.; 54% up-to-stand, 49% 1992, 36% avg. Soybeans 41% planted, 46% 1992, 59% avg.; 24% up-to-stand, 37% 1992, 33% avg. Peanuts 91% planted, 67% 1992, 70% avg.; 69% up-to-stand, 51% 1992, 45% avg. Cotton 20% fair, 80% good; 91% planted, 59% 1992, 79% avg.; 85% up-to-stand, 42% 1992, 56% avg. Alfalfa 96% 1st cut, 74% 1992, 97% avg.; 10% 2nd cut, 4% 1992, 21% avg. Pastures 96% of normal. Prices for feeder steers, heifers up from preceding week. Stocker prices steady. Marketings average.

OREGON: Temperatures normal coast, western valleys 2° below normal, eastern areas 4° below normal. Several northeastern locations recorded frosts. Precipitation coast 1.20 in., western valleys 0.30 to 0.40 in., high plateau, northern Cascades 1.00 inch, north central areas 0.10 in., elsewhere eastern locations 0.30 to 0.80 in. Snow recorded in some higher elevations.

Soil moisture 81% adequate, 19% surplus. Winter wheat 2% poor, 7% fair, 52% good, 39% excellent; headed 93%. Barley planted 99%. Hay harvest delayed, wet conditions; concern over rain damaged hay, over-mature hay. Grass, alfalfa silage harvest delayed also. Mint growth delayed, eastern areas. Spring canola blooming, ideal conditions; eastern areas. Potato planting complete, except Klamath Basin. Snap peas harvest expected very light. Willamette Valley vegetable plantings still delayed due to wet conditions, some canneries cutting acreage due to delays in plantings. Cranberry bloom, fruit development progressing normally; southern coast. Willamette Valley strawberry harvest continued, wet cool weather caused mold, rot. Rain causing some cracking in sweet cherry crop. Bing cherry harvest underway, some early crop cracking damage, later crop expected good; Milton-Freewater district. Hood River orchardists hand pruning Bartlett pears, apple trees. Livestock good to excellent. Ranges, pastures excellent. Summer range turn out continued. Range, pasture 106% of normal.

PENNSYLVANIA: Midweek hot, wet. Above average precipitation, temperatures. Temperature 73°, 9° above normal. Extremes 39°; 92°. Precipitation 1.38 in., 0.51 in. above normal.

Days suitable for fieldwork 4. Soil moisture 27% short, 57% adequate, 16% surplus. Corn 95% planted, 95% 1992, 90% avg.; height 6 in., 6 in. 1992, 7 in. avg.; 8% poor, 25% fair, 51% good, 16% excellent. Tobacco 60% transplanted, 61% 1992, 54% avg. Soybeans 82% planted, 75% 1992, 66% avg.; 4% very poor, 4% poor, 27% fair, 47% good, 18% excellent. Potatoes 98% planted, 100% 1992, 99% avg. Barley 98% heading or headed, 99% 1992; 40% turning yellow, 29% 1992. Wheat 98% heading or headed, 100% 1992; 6% turning yellow, 1% 1992; 3% very poor, 5% poor,

20% fair, 55% good, 17% excellent. Oats 3% very poor, 10% poor, 34% fair, 43% good, 10% excellent. Alfalfa first cutting 58% complete, 55% 1992. Quality of hay made 14% poor, 42% fair, 44% good. First cutting of timothy clover 39%, 39% 1992. Feed from pastures good to excellent. Peach 14% below avg., 76% avg., 10% above avg. Apple 4% below avg., 73% avg., 23% above avg. Activities: Making hay, filling silos; planting of soybeans, corn, potatoes; spraying; caring for livestock.

PUERTO RICO: Average island rainfall of 0.87 in. was 0.45 in. below normal. Highest rainfall 6.11 in. Hacienda Constanza, 3.44 in. Maricao 2 SSW, 3.19 in. Mayaguez City. Highest 24 hour total 2.75 in. Maricao 2 SSW 10th. Island temperatures 82° on the Coasts, 75 to 77° Interior with mean station temperature 84.4° Roosevelt Roads to 66.9° Pico del Este Luquillo. Extremes 59°; 95°.

SOUTH CAROLINA: Average rainfall less than 0.70 in. Isolated thunderstorms yielded heavy rains in excess of 2.00 in. some areas. Temperatures 10 to 15° above normal last week.

Days suitable for fieldwork 6.4. Soil moisture 39% very short, 59% short, 2% adequate. Corn fair; 12% silked, 13% 1992, 20% avg. Tobacco fair. Cantaloupes fair to good; 95% planted, 100% 1992, 94% avg. Watermelons fair; 95% planted, 100% 1992, 98% avg. Cucumbers fair; 39% harvested, 38% 1992, N/A avg. Snap beans fair to good; 90% planted, 82% 1992, 89% avg. Tomatoes fair to good. Oats fair; 89% ripe, 85% 1992, 89% avg.; 49% harvested, 29% 1992, 51% avg. Rye fair; 91% turning color, 87% 1992, 96% avg.; 83% ripe, 78% 1992, 84% avg.; 31% harvested, 21% 1992, 43% avg. Wheat fair to good; 92% ripe, 83% 1992, 92% avg.; 41% harvested, 17% 1992, 53% avg. Grain hay fair to good; 92% harvested, 83% 1992, 86% avg. Peaches fair to good; 9% harvested, 16% 1992, 16% avg. Pasture fair.

SOUTH DAKOTA: Temperatures 0 to 5° below normal. Extremes 28°; 89°. Rainfall was generally around 1.00 to 2.00 in. across State.

Days suitable for fieldwork 2.7. Topsoil, 4% short, 58% adequate, 38% surplus. Subsoil 2% very short, 3% short, 65% adequate, 30% surplus. Rye 10% fair, 69% good, 21% excellent. Oats 2% poor, 11% fair, 73% good, 14% excellent. Barley 3% poor, 9% fair, 63% good, 25% excellent. Flax 8% poor, 4% fair, 70% good, 18% excellent; 82% planted, 100% 1992, 94% avg. Sunflowers 75% planted, 77% 1992, 71% avg. Small grain progress remained behind normal due to the below normal temperatures. Tan spot was reported to be in some wheat fields. Wet field conditions continue to make planting difficult in the southeast. Livestock 1% fair, 75% good, 24% excellent. Pasture conditions 96% of normal. Alfalfa 16% first cutting, 44% 1992, 36% avg. Haying was sluggish last week due to the rainfall.

TENNESSEE: Temperatures 1 to 8° above normal. West recorded the highest temperatures, plateau the coolest. Extremes 57°; 96°. Precipitation 0.02 in. below normal west, to 0.65 in. below normal east. Memphis the highest with 1.10 in. (on the 12th evening). Knoxville had no rainfall.

Days suitable for fieldwork 5.7. Soil moisture 32% short, 67% adequate, 1% surplus. Corn 16% fair, 80% good, 4% excellent. Cotton 100% planted, 100% 1992, 99% avg.; 2% squaring, 4% 1992, 6% avg.; 3% poor, 81% fair, 15% good, 1% excellent. Sorghum 93% planted, 100% 1992, 84% avg.; 17% fair, 83% good. Soybeans 61% planted, 64% 1992, 57% avg.; 23% fair, 77% good. Tobacco 89% transplanted, 91% 1992, 88% avg.; 3% poor, 26% fair, 71% good. Wheat 94% turning color, 98% 1992, 96% avg.; 20% ripe, 58% 1992, 60% avg.; 1% poor, 47% fair, 50% good, 2% excellent. Hay 7% fair, 68% good, 25% excellent. Pastures 11% fair, 70% good, 19% excellent. Cattle 5% fair, 84% good, 11 percent excellent. The hot, dry conditions helped cotton development. Boll weevil treatments are beginning. Wheat harvest started on a limited scale in west. Tobacco transplanting almost complete. Some tobacco needs re-setting because hot conditions stressed some already-weak plants. Soybean, sorghum planting are in full swing. Most of remaining soybean planting awaits wheat harvest and an increase in soil moisture levels.

TEXAS: Temperatures were close to normal most areas of State. East Texas, Upper Coastal growing areas had temperatures slightly

above normal. Rest of State was at or slightly below normal. Greatest departure was in South Plains where temperatures for week were 4° below normal. Most areas of State received more than their share of rain for week. Only northern high plains, East Texas reported departures that were below normal. A tropical air mass dominated much of state and lead to numerous showers around the State. In the High Plains cold fronts edged into the State, did not make much progress southward. During the week ahead, low-level winds may shift to the southwest, and help cut off some of the tropical moisture that dominated this week's weather.

Crops: Corn stands in High Plains continued to look good. Recent rains have benefitted the crop in Blacklands, but more moisture is needed. Harvesting of silage began in Coastal Bend area. Corn 84% normal, 92% 1992. Cotton planting winding down in some areas of High Plains, where some fields were lost due to heavy winds, hail, washing rains. Thrips also a problem in some untreated fields. Boll weevil numbers were increasing in Low Plains, farmers were spraying for over wintering weevils in Blacklands. Cotton 78% normal, 41% 1992. Rice planting was completed. Most stands had emerged, a few early planted stands had started to head. Flooding of fields continued. Rice 83% normal, 84% 1992. Grain sorghum planting continued across most of State. Some producers in Coastal Bend were applying chemicals for midge control. Crop was heading in Upper Coast. Sorghum 82% normal, 78% 1992. Small grain harvest underway in High, Low Plains, hampered by recent rains. Wheat harvest winding down in Edwards Plateau. Wheat 76% normal, 78% 1992. Peanut fields in Low Plains were up, in need of rain. Planting in Cross Timbers continued as weather permitted. Soybean planting virtually complete in Blacklands where planted fields progressed well. Along Upper Coast, crop made good growth, some fields had water damage.

Commercial Vegetables: Rio Grande Valley, watermelon harvesting was complete. Producers were preparing land for fall crops. San Antonio-Winter Garden, onion, cabbage harvest hindered by rains. Harvesting of watermelons had begun, yields were light. East Texas, cucumbers, onions, squash, tomatoes were harvested. Some fields experienced problems with aphids, spider mites. Sweet potato planting continued. Watermelons made good progress. High Plains, carrots, onions, potatoes progressed well. Harvesting of potatoes should begin several weeks. Irrigation of vegetables continued. Trans-Pecos, curly top virus was present in many pepper fields. Onion harvest continued. Peach harvesting continued in Central Texas, Edwards Plateau. Brown rot a problem in some orchards in Cross Timbers, East Texas. Heavy winds in Low Plains destroyed some of crop there. Pecan nut casebearer spraying continued in High, Low Plains. Yellow aphid population declined significantly in Trans-Pecos.

Range and Livestock: Ranges, pastures in many areas still in need of additional moisture. Cross Timbers, ticks, flies increased in numbers. Supplemental feeding continued in parts of High Plains, Trans-Pecos. Livestock good most areas of State.

UTAH: Temperature maximums 11° below normal, minimums 3° below normal. Precipitation was heavy in the north central, northern mountains, moderate to heavy in the western, south central, light for the rest of the State.

Days suitable for fieldwork 5.3. Soil moisture 14% short, 75% adequate, 11% surplus. Winter wheat headed or better 88%, 94% 1992, 75% avg. Spring wheat jointed or better 86%; headed or better 42%, 77% 1992, 39% avg. Barley jointed or better 82%; headed or better 38%, 86% 1992, 47% avg. Oats jointed or better 57%, 86% 1992, 73% avg.; headed or better 16%, 29% 1992. Corn height 7 in., 11 in. 1992, 7 in. avg. Alfalfa hay 1st cutting 50%, 88% 1992, 53% avg. Cattle moved to summer range 85%, 87% 1992. Sheep moved to summer range 83%, 76% 1992. Box Elder county reported 40% of fruit lost due to last week's hail storm. Pasture, range good to excellent.

VIRGINIA: Temperatures 3 to 5° above normal. Extremes 41°; 99°. Precipitation 0.50 to 1.50 in.

Days suitable for fieldwork 5.0. Topsoil 23% short, 70% adequate, 7% surplus. Pasture 3% poor, 3% fair, 80% good, 14% excellent.

Alfalfa 2% poor, 4% fair, 71% good, 23% excellent. Other hay 3% poor, 10% fair, 70% good, 17% excellent. Barley 17% harvested, 16% 1992, 36% avg. Oats 7% harvested, 18% 1992, 17% avg. Wheat 1% harvested, 4% 1992, 18% avg. Apple 6% poor, 13% fair, 75% good, 6% excellent. Potato 22% fair, 66% good, 12% excellent. Corn 99% planted, 97% 1992, 97% avg. Corn 5% poor, 21% fair, 74% good. Peanut 17% fair, 83% good. Soybeans 49% planted, 45% 1992, 54% avg. Soybean 8% poor, 17% fair, 75% good. Flue tobacco 100% transplanted, 100% 1992, 100% avg. Burley tobacco 80% transplanted, 82% 1992, 89% avg. Dark-fired tobacco 99% transplanted, 99% 1992, 93% avg. Sun-cured tobacco 100% planted, 100% 1992, 98% avg. All tobacco 16% poor, 55% fair, 29% good. Cutting, baling hay, cultivating tobacco, cotton, snaps, cucumbers, sheering sheep.

WASHINGTON: Temperatures 3° below normal to 3° above normal west; 2 to 6° below normal east. Precipitation 0.35 to 2.18 in. west; 0.03 to 0.95 in. east.

Days suitable for fieldwork 5.0. Soil moisture 24% short, 75% adequate, 1% surplus. Irrigation water supply 13% short, 87% adequate. Hay, other roughage 32% short, 68% adequate. Range, pasture 10% poor, 13% fair, 66% good, 11% excellent. Winter wheat dryland 10% fair, 85% good, 5% excellent; irrigated 5% fair, 95% good. Spring wheat dryland 5% poor, 10% fair, 85% good; irrigated 5% fair, 95% good. Barley dryland 5% poor, 30% fair, 65% good; irrigated 5% fair, 95% good. Cool, wet weather continued across the State. Cereal grain development continued, although still behind normal. Rain continued to plague hay growers. Many hay fields were over-mature, those that were cut were often damaged by the rain. Strawberry harvest continued with many reports of rot. Rains, cool weather have extended grazing in many areas.

WEST VIRGINIA: Temperature 72°. Extremes 44°; 95°. Precipitation 1.01 in.

Days suitable for fieldwork 4.7. Soil moisture 22% short, 67% adequate, 11% surplus. Soil prepared 95%. Wheat 6% fair, 94% good. Barley good; 65% ripe. Oats 5% fair, 95% good. Corn 8% fair, 92% good; 91% planted, 80% emerged. Soybeans 9% fair, 91% good; 70% planted, 50% emerged. Hay 16% fair, 75% good, 9% excellent; 45% 1st cut. Apples good. Peaches good. Tobacco 1% fair, 99% good; 68% set. Pastures 4% fair, 96% good; 92% of normal. Cattle 2% fair, 97% good, 1% excellent. Sheep good. Gardens, 15% fair, 85% good; 80% planted, 65% emerged. Farm activities: General maintenance, planting corn, gardens, soybeans, cutting hay, setting tobacco.

WISCONSIN: Summer-like temperatures, heavy rains were the dominant conditions. Temperature 65°; 1° above normal. Extremes 43°; 88°. Precipitation 1.40 to 3.70 in.

Days suitable for fieldwork 3.4. Soil moisture 26% adequate, 74% surplus. Pasture 87% of normal, 59% 1992, 72% avg. General condition of crops: 9% poor, 45% fair, 43% good, 3% excellent. Oats 1% very poor, 6% poor, 25% fair, 60% good, 8% excellent. Corn 1% very poor, 17% poor, 56% fair, 24% good, 2% excellent; 90% planted, 100% 1992, 99% avg.; height: 4 in., 8 in. 1992, 9 in. avg. Winter Wheat 1% poor, 31% fair, 53% good, 15% excellent. Soybeans 67% planted, 96% 1992, 91% avg. 1st cut alfalfa: 15% harvested, 55% 1992, 49% avg. Primary activities: Hay harvesting, soybean planting.

WYOMING: Temperatures 2 to 7° below normal across the State. Precipitation was near normal for most areas. Exception was the northeast which averaged about 2.00 in. above normal.

Days suitable for fieldwork 4.5. Topsoil 81% adequate, 19% surplus. Subsoil 11% short, 82% adequate, 7% surplus. Spring wheat 6% headed, 10% 1992, 7% avg. Oats 4% headed, 5% 1992, 2% avg. Barley 9% headed, 35% 1992, 17% avg. Winter wheat 48% headed, 53% 1992, 32% avg. Sugarbeets 40% thinned, 52% 1992, 57% avg. Corn 86% emerged, 95% 1992. Dry beans 26% emerged, 51% 1992, 47% avg. Alfalfa 1st cutting completed 7%, 14% 1992, 6% avg. All crops mostly good condition. Irrigation supplies 90% adequate, 10% surplus. Percent of cattle, calves moved to summer ranges 75%. Percent of sheep, lambs moved to summer ranges: 63%.

International Weather and Crop Summary HIGHLIGHTS

June 6 - 12, 1993

FSU: In western areas, although beneficial rain covered Russian crop areas, the Baltic States continued unfavorably dry. In the New Lands, widespread rain benefited spring grains in the vegetative stage.

EUROPE: Wet weather provided ample moisture for crop development in the west, but dryness persisted in Hungary.

SOUTH ASIA: The intensifying monsoon brought more rain and flooding to southern and eastern rice areas.

EASTERN ASIA: Most regions of China received beneficial rains for summer crops, especially in Manchuria. Heavy showers continued to cause flooding across extreme southern China.

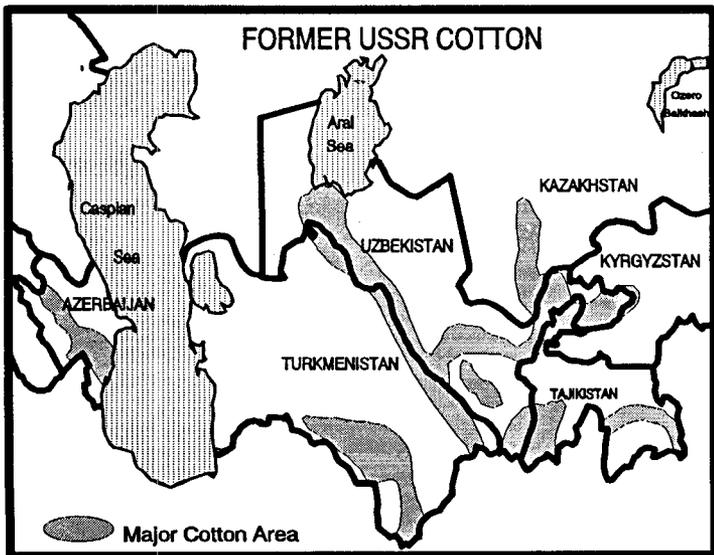
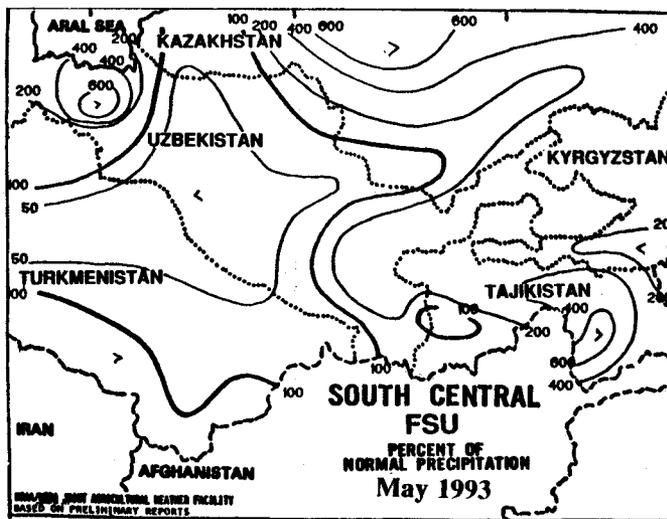
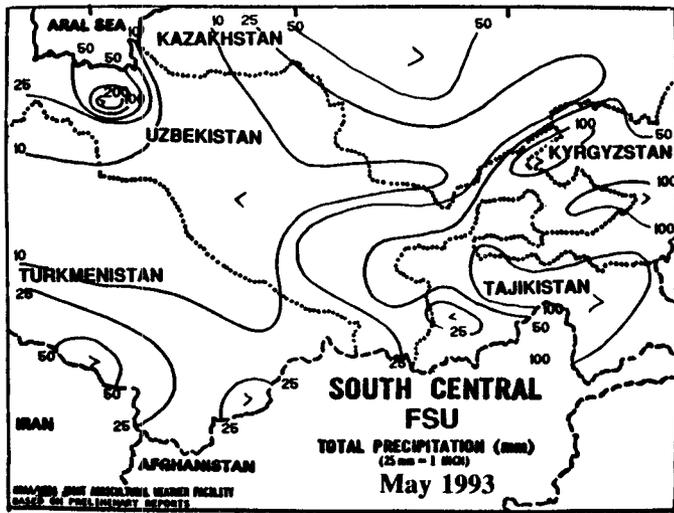
SOUTHEAST ASIA: Widespread but variable showers continued over Indochinese rice and corn areas.

AUSTRALIA: Rain benefited germinating wheat across southern Australia. Wheat planting should be well underway.

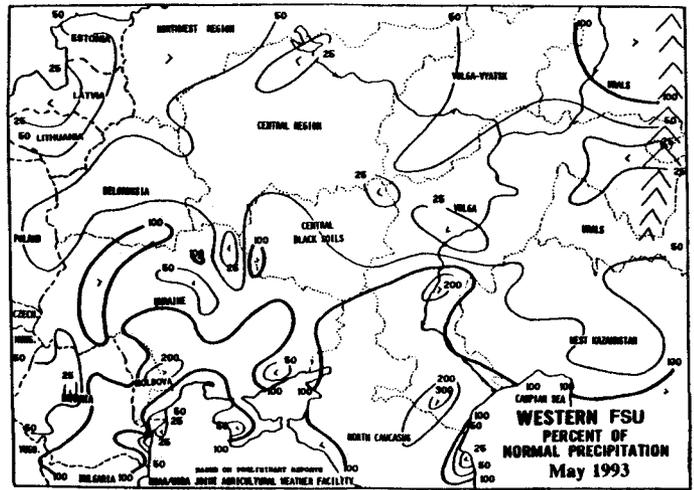
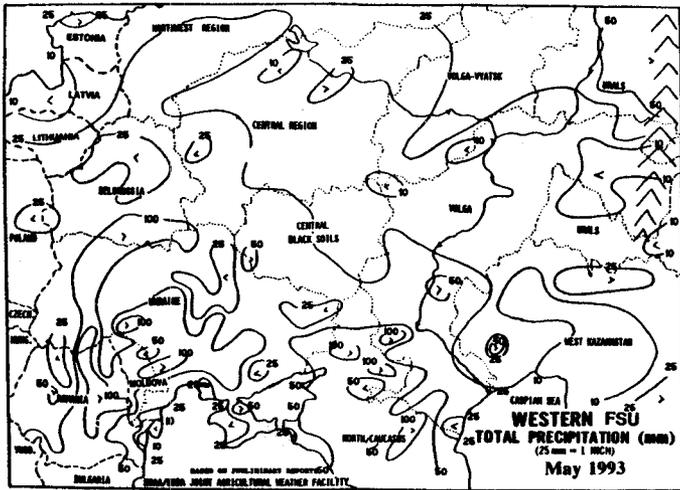
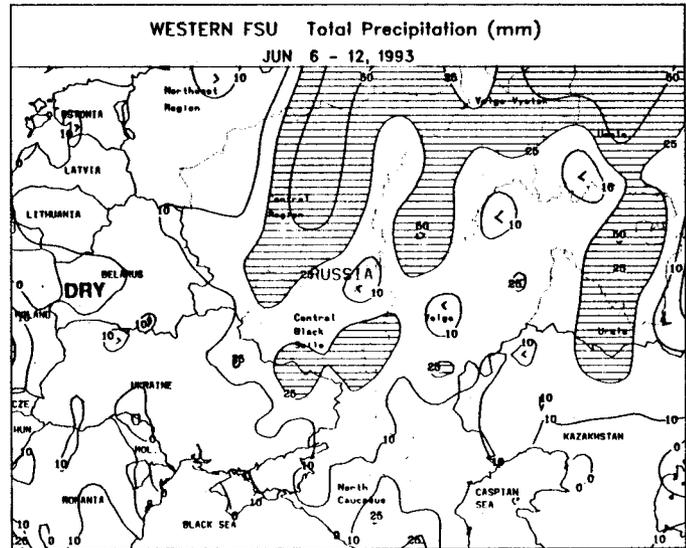
SOUTH AMERICA: Showers caused soybean harvest delays across central Argentina.

MEXICO: Widespread showers helped germinating corn across the southern Plateau corn belt.

CANADA: Rain and warmer weather benefited Prairie spring crops and Ontario's winter wheat and corn.

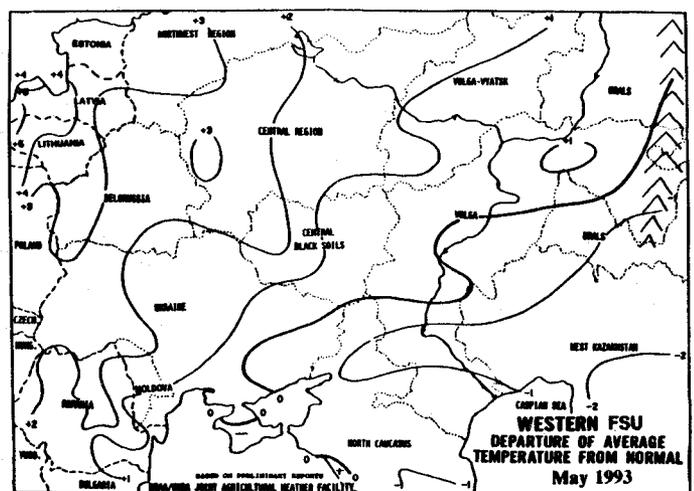
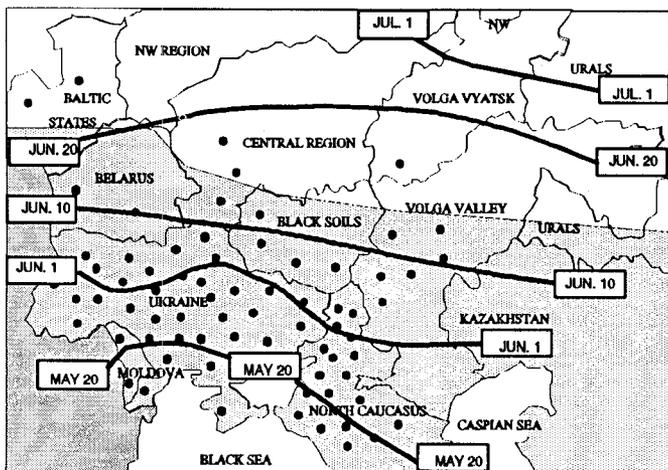


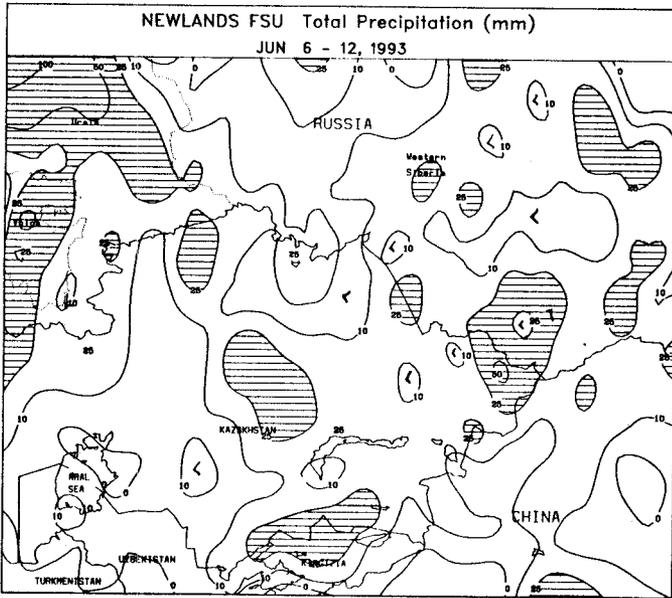
FSU-WESTERN: Continued widespread light to moderate rain (10-32 mm, with local amounts in excess of 50 mm) and unseasonably cool weather over Central Region, Black Soils Region, Volga Vyatsk, the northern tip of the North Caucasus, and upper Volga, benefited winter grains in the reproductive phase of development and spring grains in the jointing stage. Moisture reserves continued to diminish over the Baltic States, where rainfall continued below normal (less than 10 mm). However, cool weather (temperatures 1-3 degrees Celsius (C) below normal) helped to lower crop-water requirements, minimizing potential stress. Further south, although precipitation decreased over southern Ukraine and central North Caucasus, moisture reserves remained adequate for filling winter grains, spring grains in or nearing the heading stage, and summer crops in the vegetative stage. In May, the combination of well below-normal precipitation and unseasonable warmth over Belarus and Russia favored rapid spring grain planting. While May's dryness in these areas diminished topsoil moisture for spring grain germination and establishment, subsoil moisture remained adequate for winter grains. Further south, near- to above-normal precipitation over most of Ukraine and North Caucasus provided beneficial moisture for developing winter grains and corn germination.



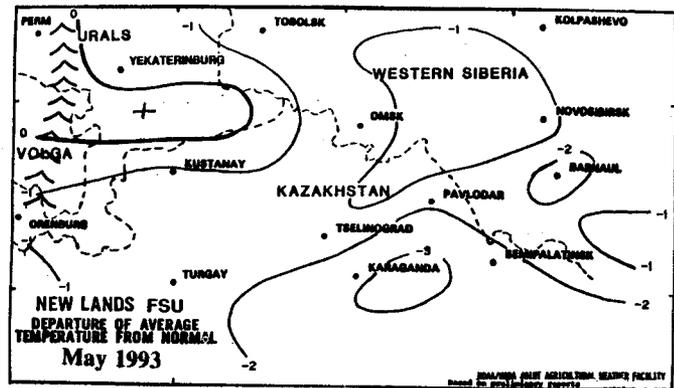
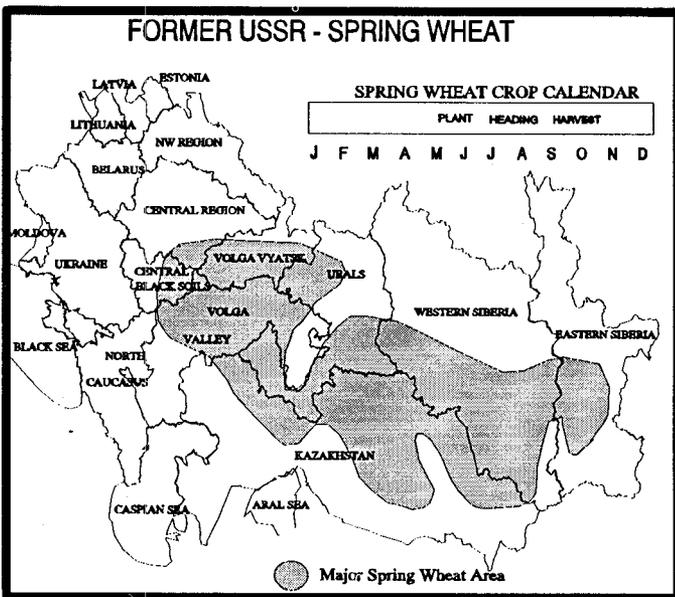
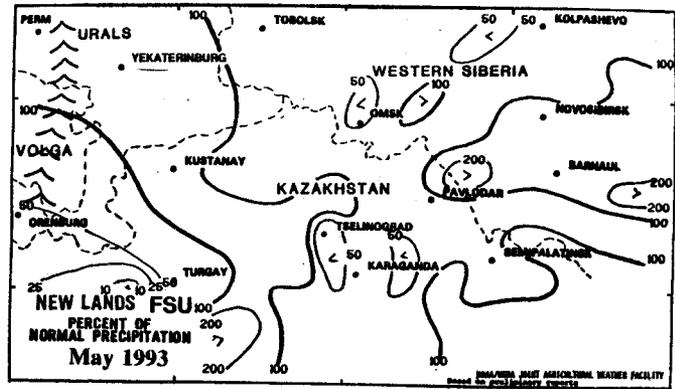
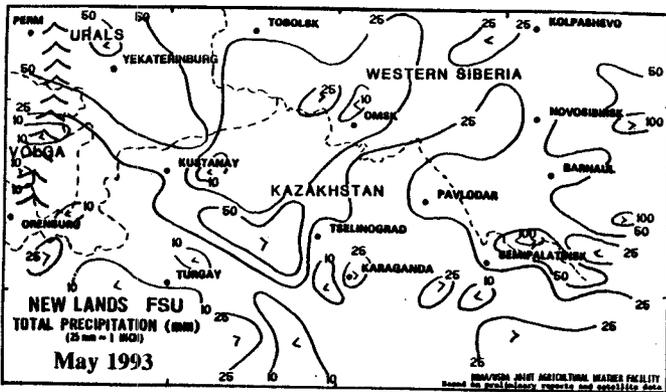
FORMER SOVIET UNION (WESTERN)

WINTER GRAIN HEADING DATES *

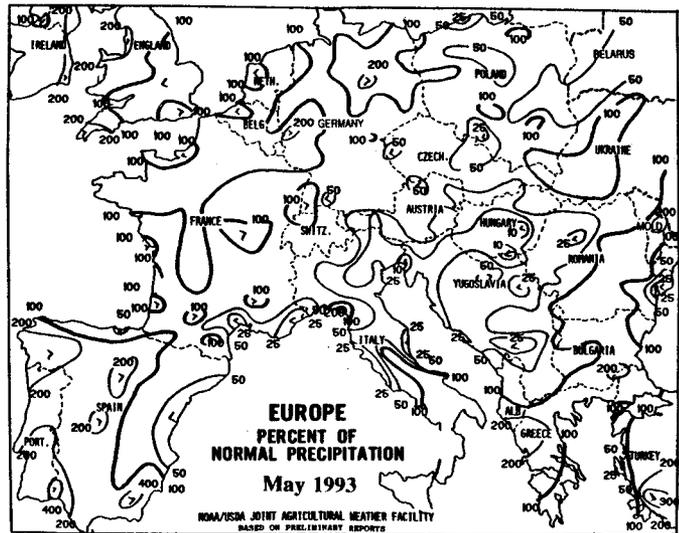
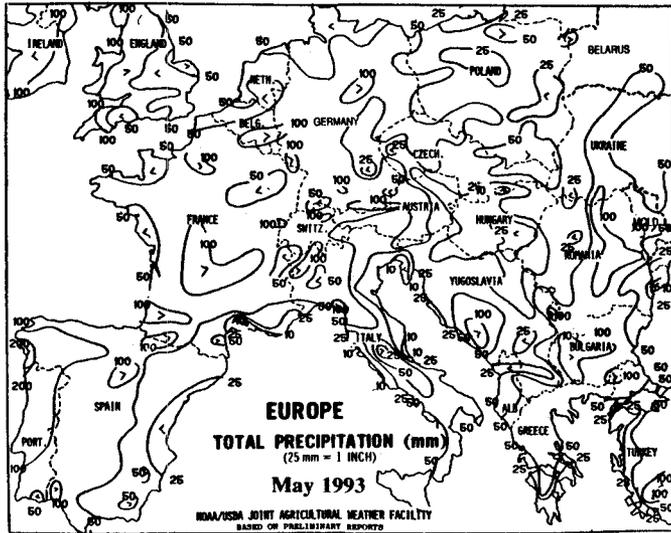
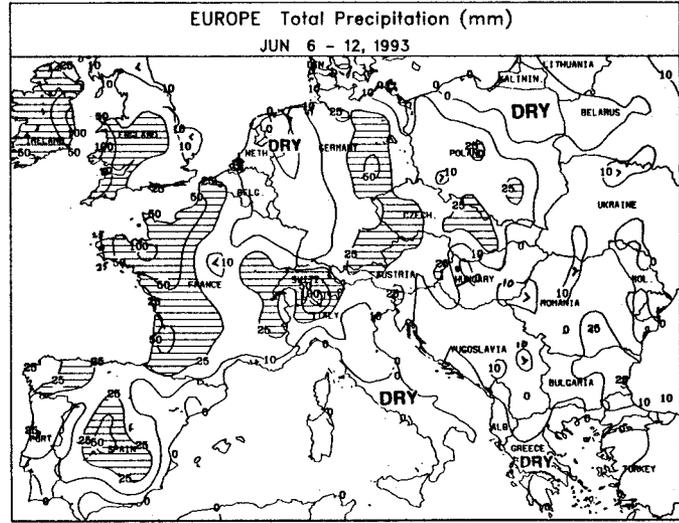




FSU-NEW LANDS: Widespread rain benefited spring grains in the vegetative stage. Greatest amounts of rain (14-45 mm, with local amounts in excess of 50 mm) fell over the Urals and adjacent areas, soaking topsoils. Lesser amounts of rain (3-20 mm) covered major spring grain areas in central Kazakhstan and Siberia, with amounts in excess of 25 mm scattered throughout the spring grain areas. Weekly temperatures averaged 1-2 degrees C above normal over the region, promoting vegetative growth. In May, spring grain planting progressed under variable weather conditions. Persistent wetness and unseasonably cool weather over Urals and western Siberia interrupted fieldwork. On May 25, dry weather began over these areas and lasted until month's end, allowing planting. In contrast, mostly dry weather in Kazakhstan from May 8 to 29 allowed rapid planting progress.

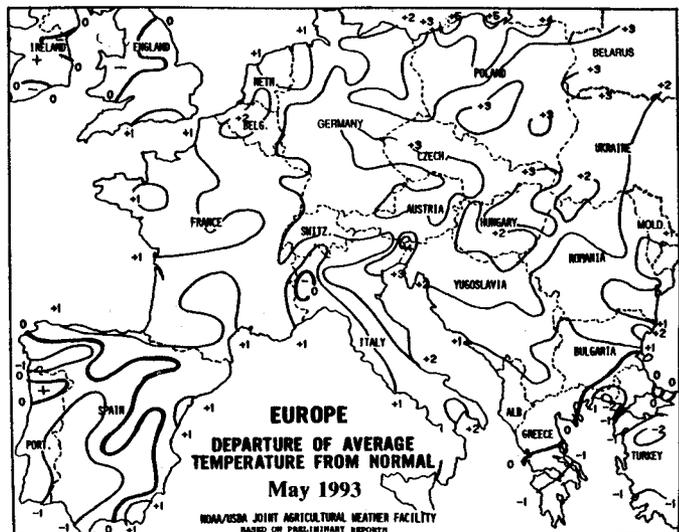
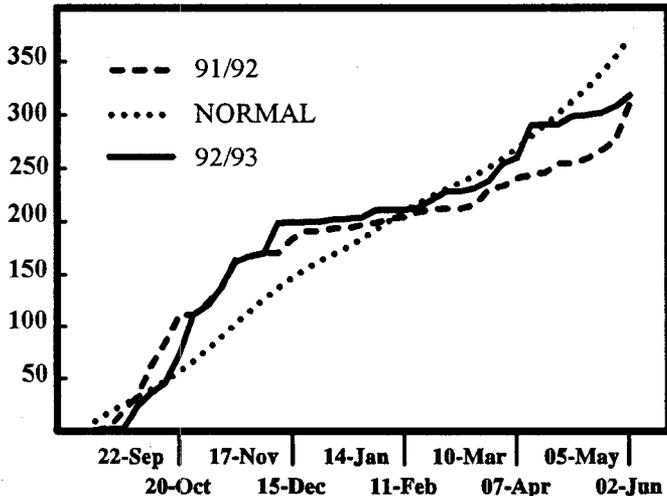


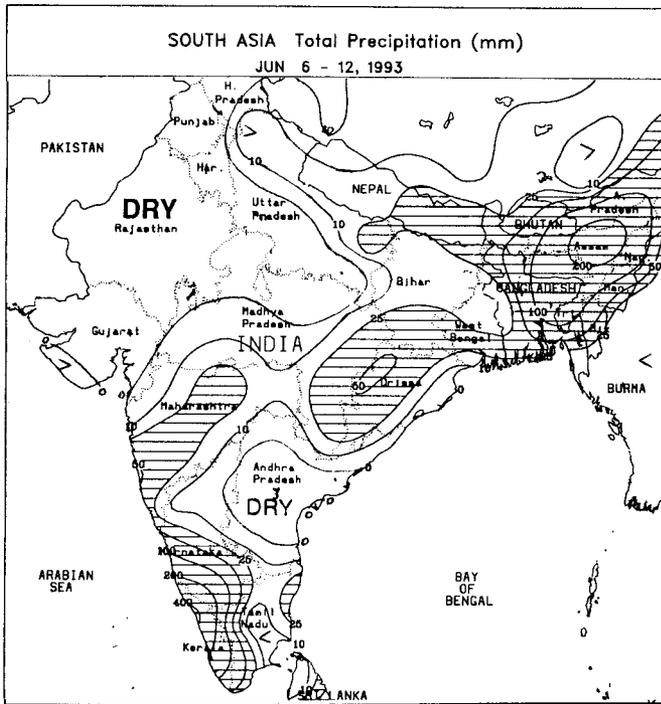
EUROPE: Wet weather covered a broad area, keeping soils adequately moist for crop development in the west but hampering winter crop harvesting in Spain. Locally heavy rain (50-131 mm) soaked northwestern France and brought some flooding to southern England. A band of significant moisture (25-87 mm) favored reproductive to filling winter grains in eastern Germany and the Czech Republic. Beneficial showers (10-48 mm) also helped heading to flowering winter crops and vegetative summer crops in western Poland and Slovakia. However, storms continued to miss crop areas of Hungary, where less than 5 mm of rain provided little relief from dryness for filling winter grains and corn growth. Dry weather also prevailed in northeastern Poland, the Netherlands, and Denmark. Scandinavian crop areas were mostly dry except for showers (9-35 mm) in Sweden from Stockholm to Karlstad. In May, near- to above-normal rain fell throughout western Europe, providing a good start to the summer growing season. A drier weather pattern in eastern Europe brought below-normal moisture to Hungary, western Romania, and along the Adriatic region. Variable rainfall in Poland provided some moisture for winter crops.



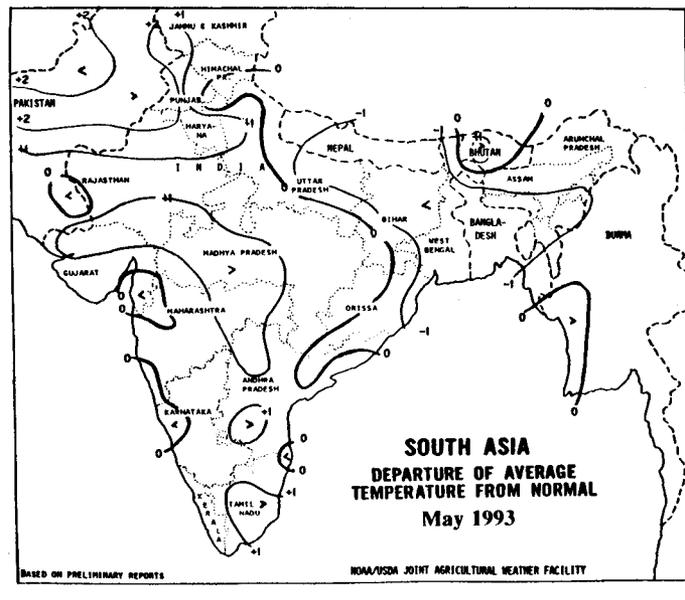
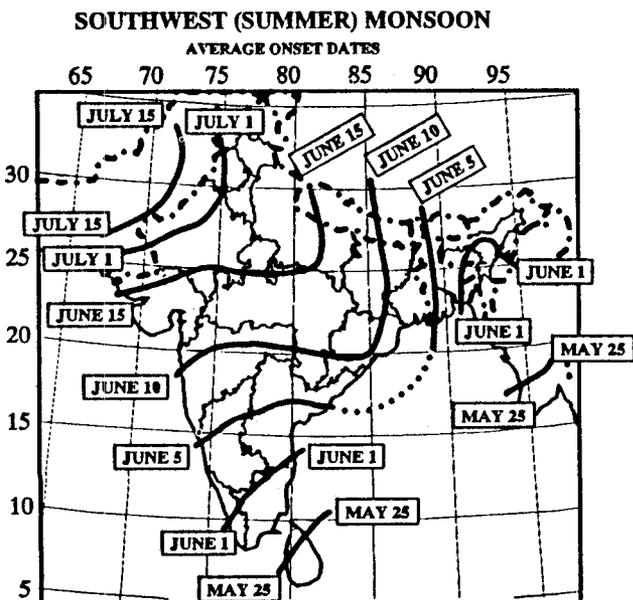
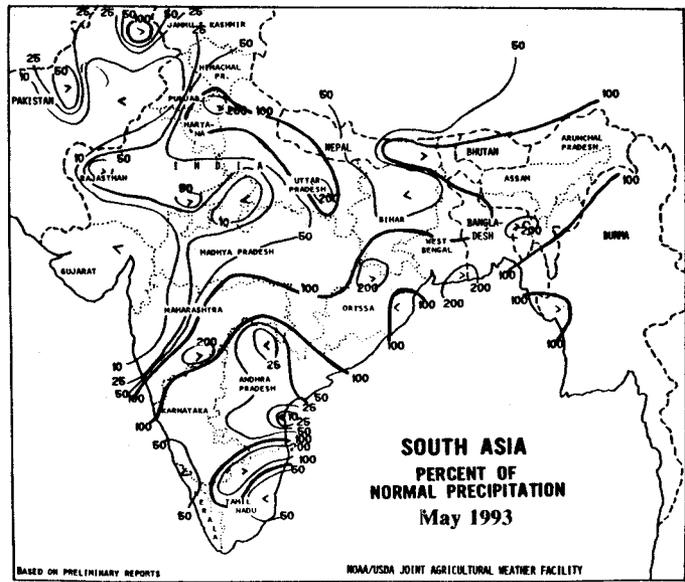
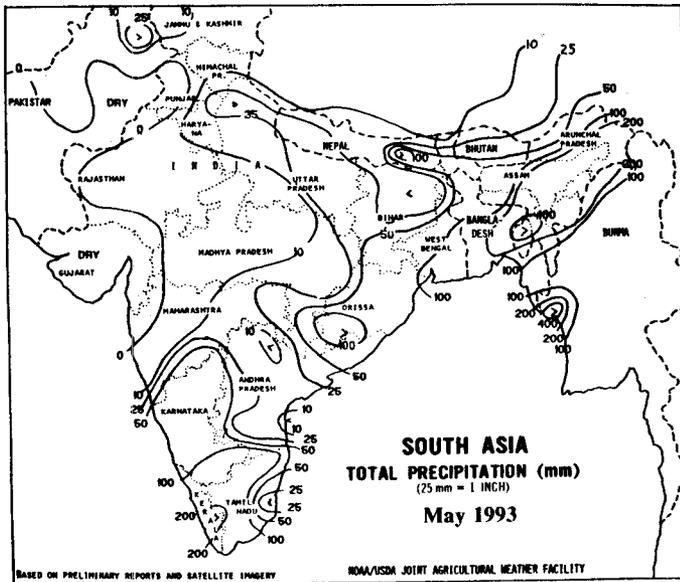
HUNGARY

CUMULATIVE RAINFALL (mm)

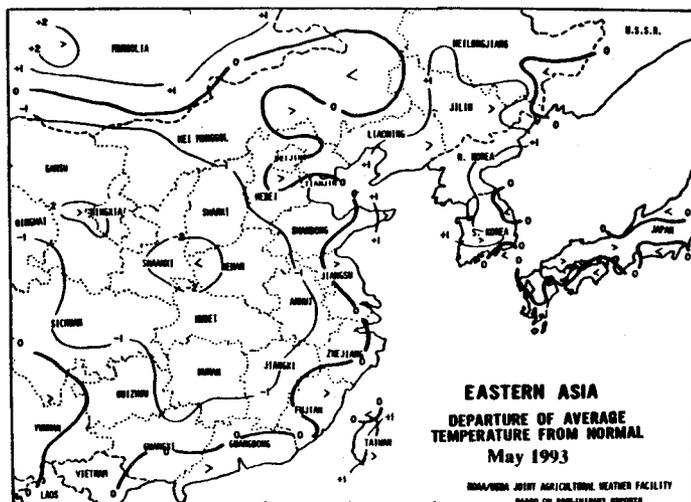
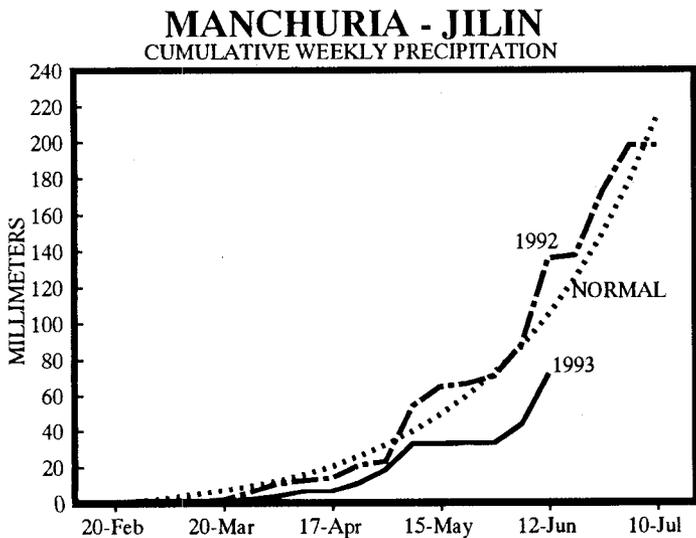
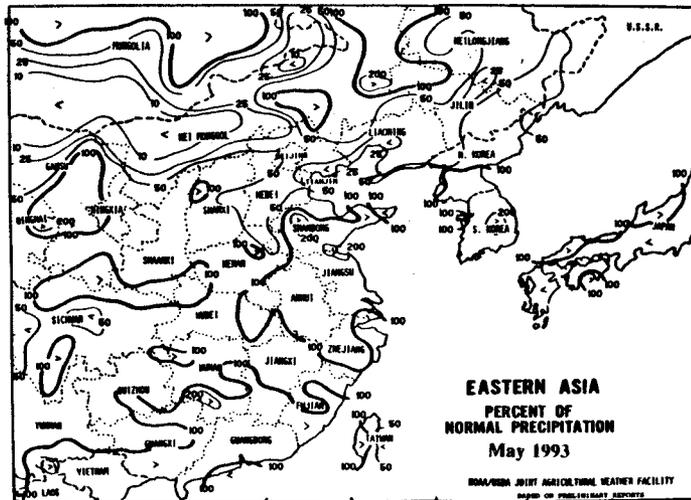
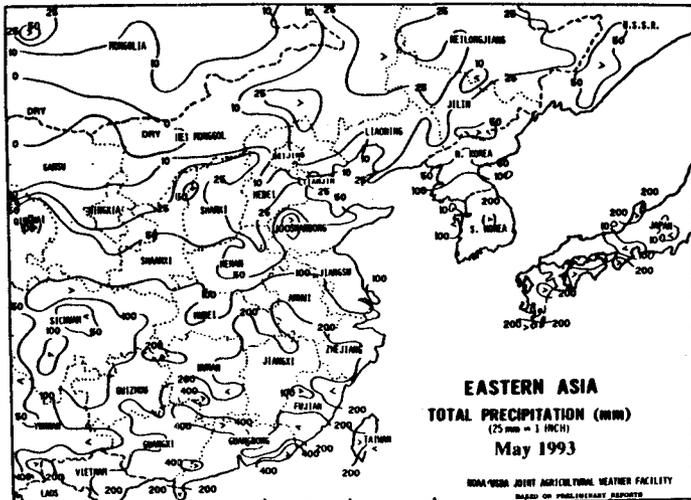
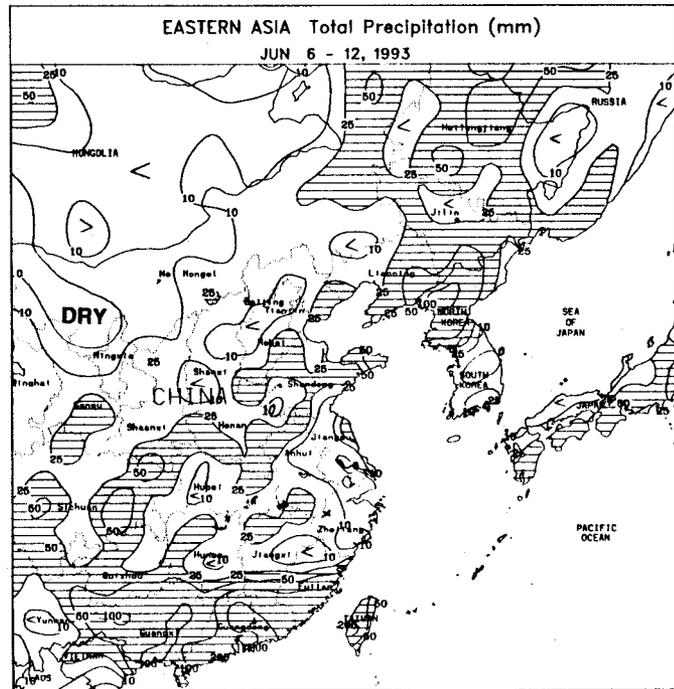


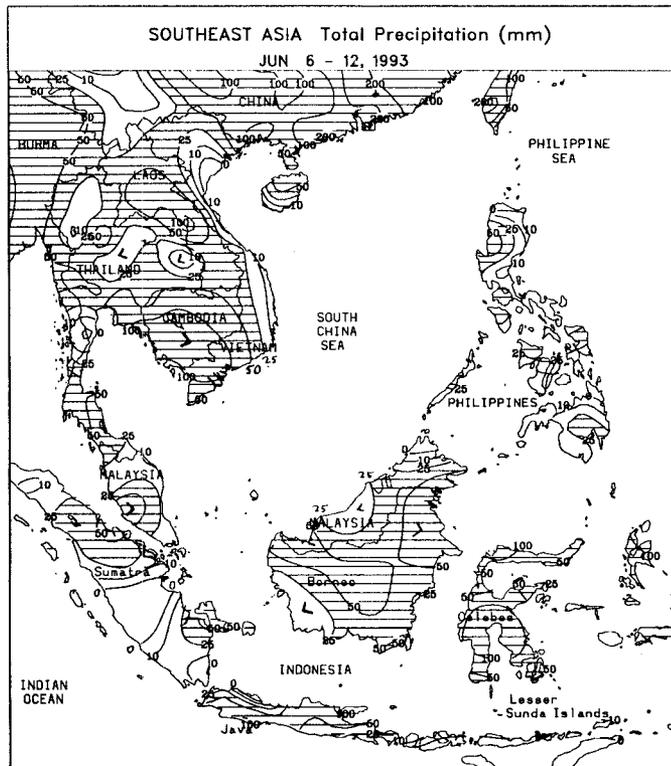


SOUTH ASIA: Beneficial rain (10-50 mm or more) continued over main-season crop areas of southern and eastern India and Bangladesh, increasing moisture reserves for planting and establishment. Inundating rains (100-300 mm or more) caused more flooding in Bangladesh, India's eastern states, and southwest coastal rice areas. In contrast, dry weather persisted over rice areas of India's eastern coast and unseasonably hot weather (2-4 degrees C above normal, highs in the mid to upper 40's C) intensified from central India to Pakistan. During May, rainfall progressively increased over southern and eastern India and Bangladesh as the southwest monsoon strengthened and approached the region on schedule. The moisture improved main season grain, oilseed, and cotton prospects but was excessive in flood-prone regions of Bangladesh and eastern India. Intensive heat plagued central and northwestern India and Pakistan for much of May, stressing livestock and maintaining high irrigation demands on cotton.



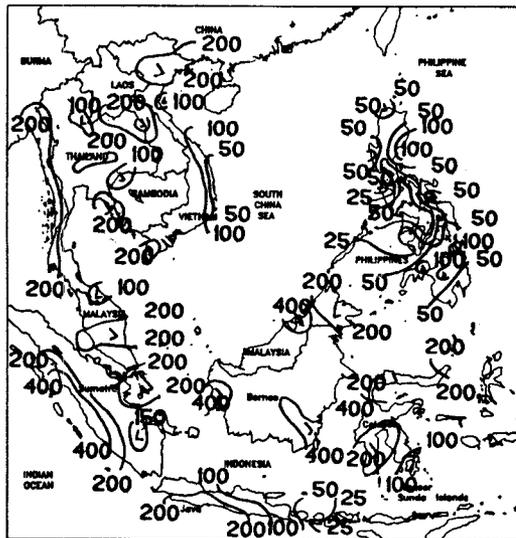
EASTERN ASIA: Moderate rains (15-50 mm) benefited germinating to vegetative summer crops across Manchuria. Rainfall has increased across Manchuria the last few weeks, reversing the May drying trend. Scattered rains (5-50 mm) fell across the North China Plain, favoring vegetative rainfed summer crops but slowing winter wheat harvesting. The southwestern province of Sichuan received light to moderate showers (10-60 mm), aiding summer crops. Variable showers (10-60 mm) aided rice irrigation supplies across the Yangtze Valley. Across southern China, heavy showers (25-100 mm, with isolated amounts greater than 200 mm) continued to cause flooding problems and delayed early double-crop rice harvesting. Weekly temperatures averaged 1-3 degrees C above normal across central and northern China. During May, below-normal rainfall (less than 50 percent of normal) ranged from Hebei northeastward into most of Manchuria. The remaining areas of China received near- to above-normal May rainfall, except for portions of eastern Sichuan, which experienced below-normal rainfall. South Korea, southern North Korea, and the northern coastal regions of Japan received above-normal May rainfall.



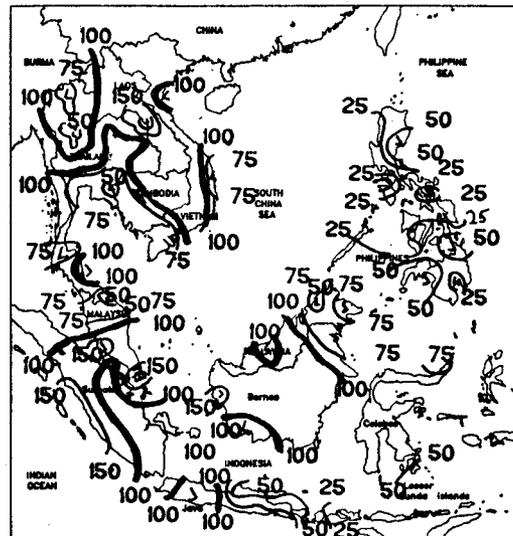


SOUTHEAST ASIA: Continuing widespread showers maintained generally favorable growing conditions for Indochina's rice and corn. Amounts ranged from 10 to 50 mm or more in most areas, but dry weather continued for the second week in rice areas of northern and central Vietnam and portions of central and eastern Thailand. Further south, beneficial rain (23-103 mm) continued over Malaysian oil palm areas, as well as eastern Java, where main-season rice planting was winding down. In the Philippines, local moderate showers (25-90 mm) dotted the region as dry, warm weather maintained unfavorable growing conditions for most main-season rice and corn. During May, the southwest monsoon intensified over Indochina, resulting in timely rain and seasonably lower temperatures for rice and corn development. However, for the month, slightly warmer- and drier-than-normal weather prevailed over portions of Thailand's rainfed crop regions. Rainfall was frequent during May over Malaysia's oil palm areas, but seasonal drying took place over Java, favoring rice harvests. Drought continued over the Philippines, worsening rice and corn prospects. The monsoon has been weak over the Philippines and tropical storm activity has been below normal in the region, reducing the potential for rainfall.

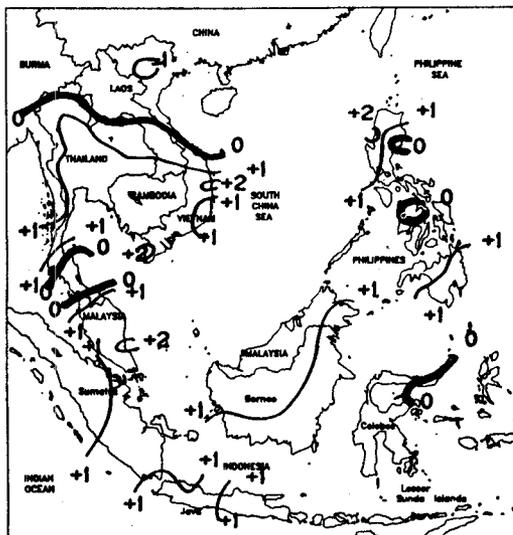
SOUTHEAST ASIA...TOTAL PRECIPITATION (mm)
MAY 1993



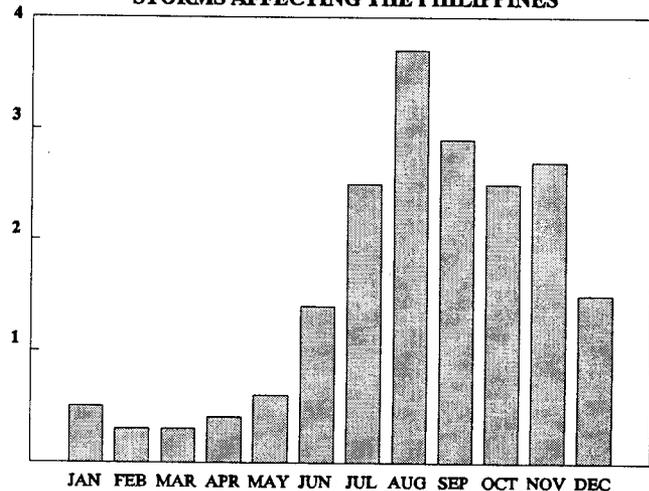
SOUTHEAST ASIA...PERCENT OF NORMAL PRECIPITATION
MAY 1993



SOUTHEAST ASIA...TEMPERATURE ANOMALY (°C)
MAY 1993

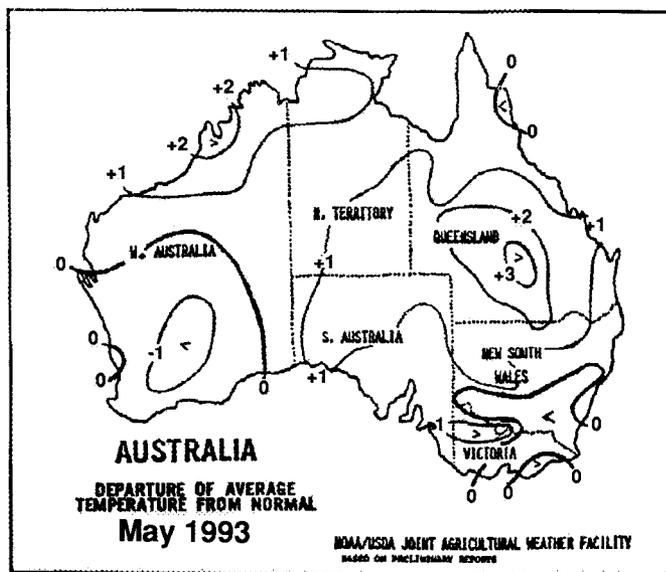
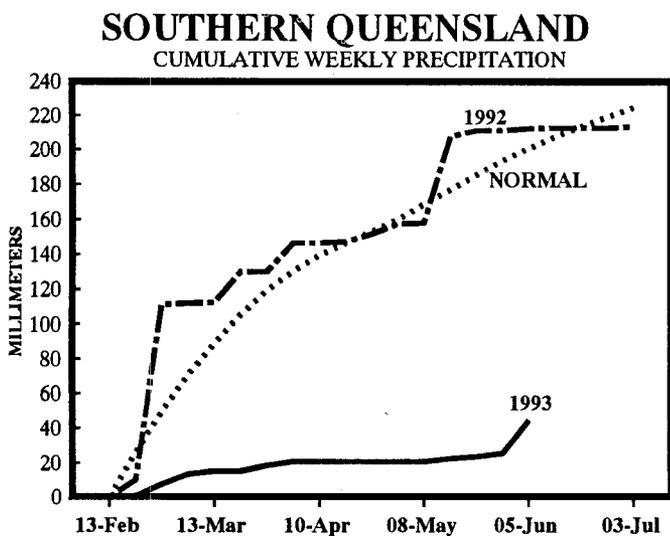
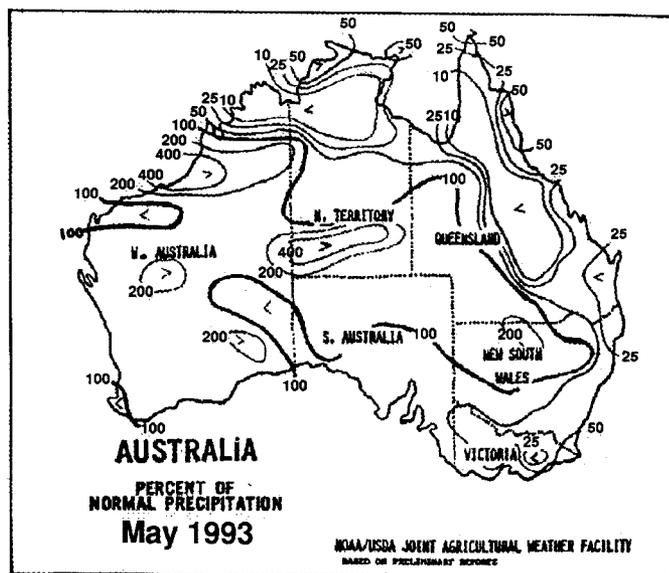
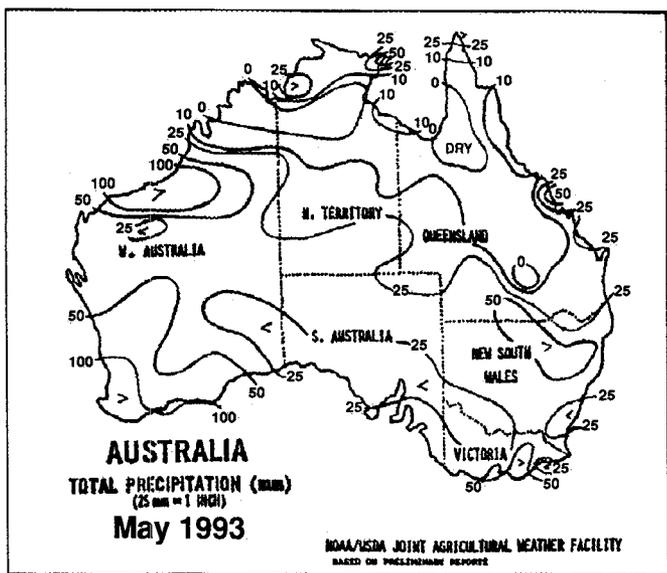
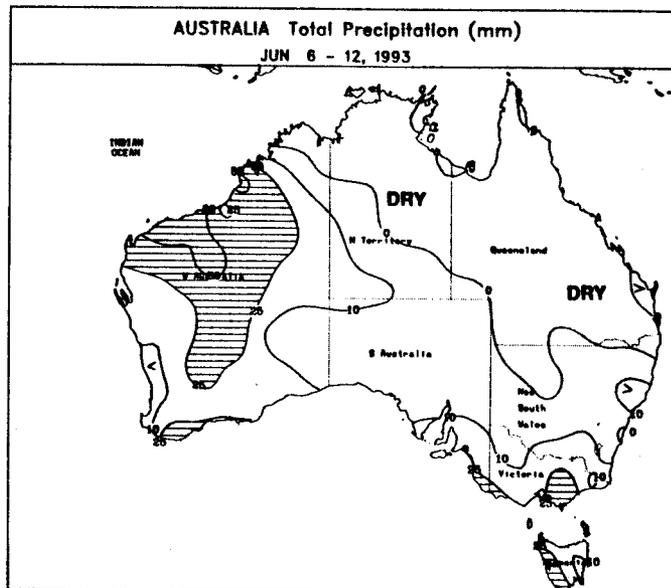


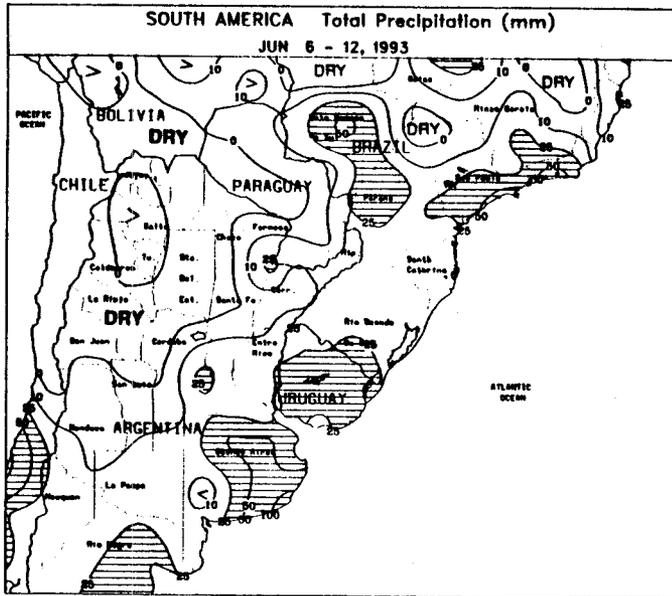
**TROPICAL CYCLONE FREQUENCY
STORMS AFFECTING THE PHILIPPINES**



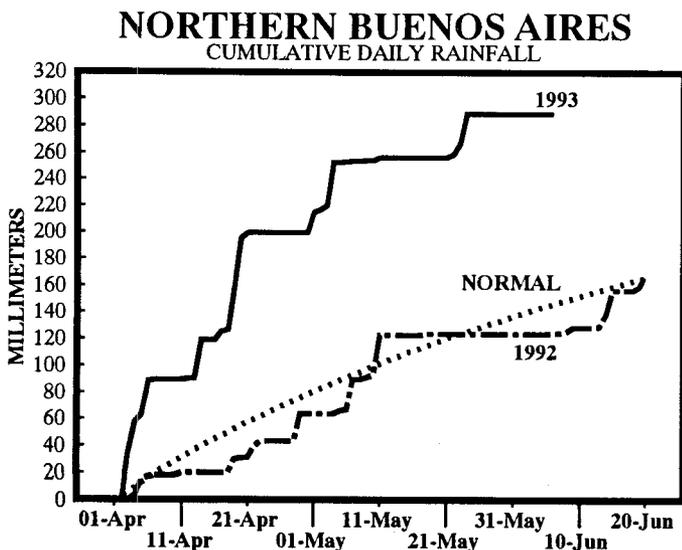
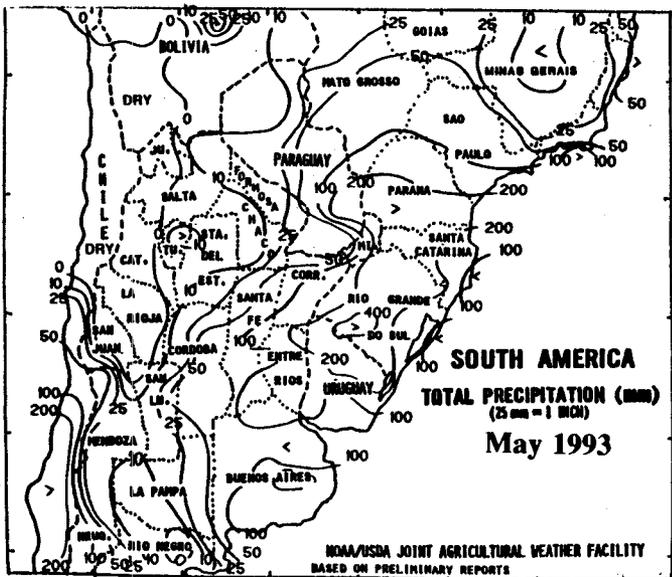
SOURCE: *WORLD SURVEY OF CLIMATOLOGY* (LANDSBURG, 1969)

AUSTRALIA: Dry weather prevailed across southern Queensland, allowing winter wheat planting to progress. While last week's rain increased topsoil moisture, southern Queensland is still experiencing significant moisture deficits. Light to moderate rain (5-18 mm) increased topsoil moisture for wheat germination across South Australia and Victoria. Western wheat areas received 9-35 mm of rain, keeping topsoils moist. Wheat planting should be well underway across all major wheat areas. Weekly temperatures averaged 1-2 degrees C below normal across most wheat areas. During May, Western Australia and portions of northern New South Wales received near- to above-normal rainfall. Below-normal May rainfall across the southern wheat areas and southern Queensland limited topsoil moisture for wheat germination.

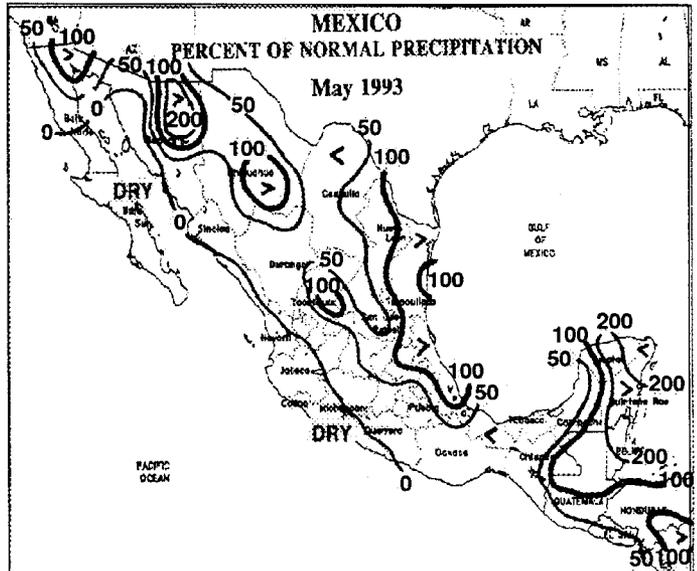
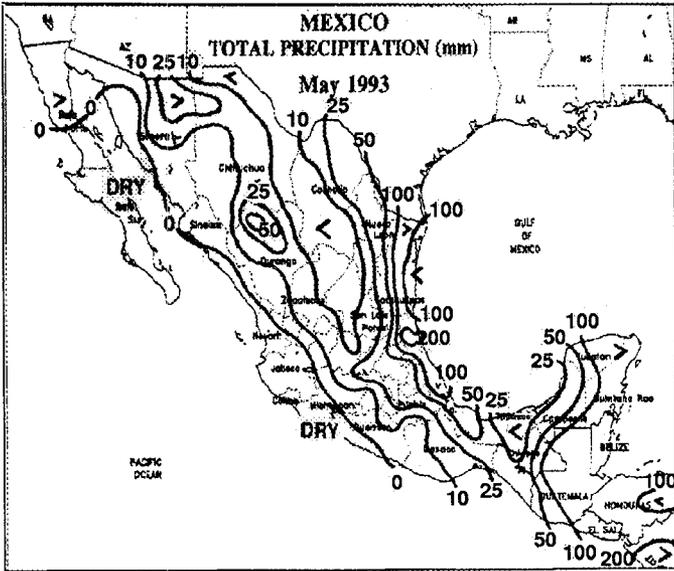
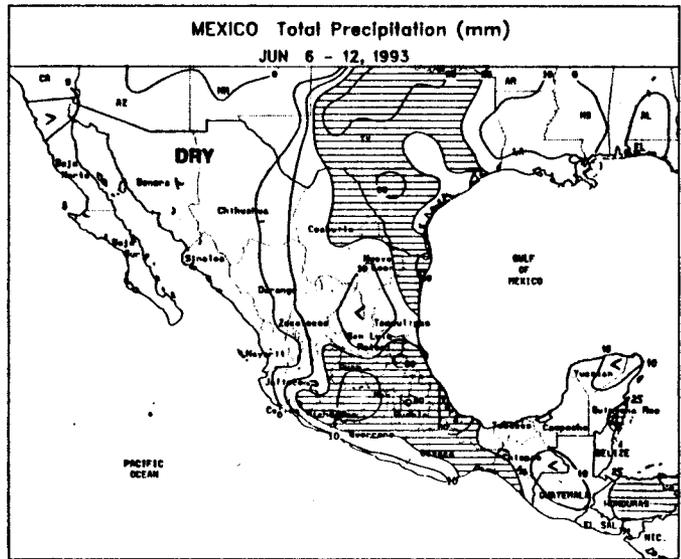




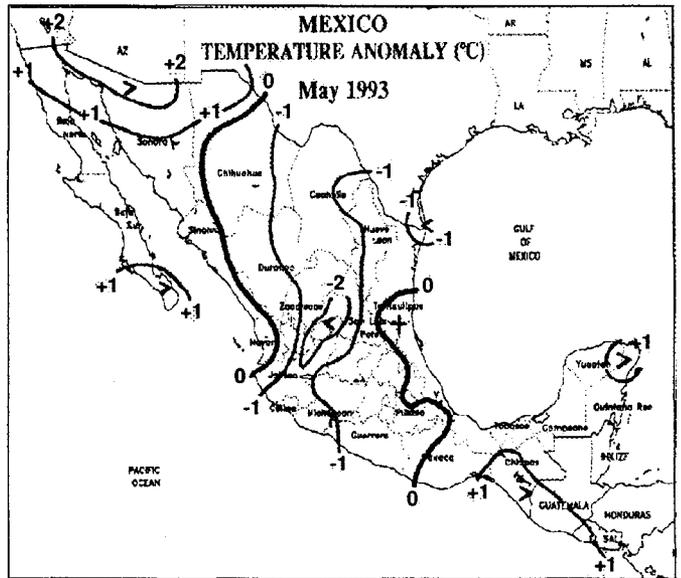
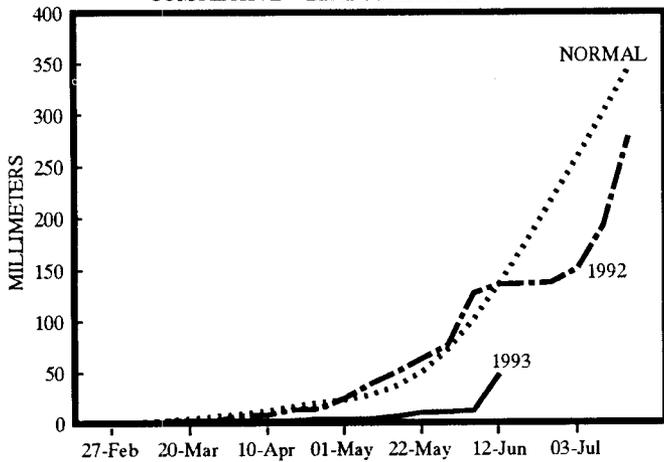
SOUTH AMERICA: Mid-week showers (22-60 mm) fell across northern and eastern Buenos Aires province, delaying soybean harvesting and winter wheat planting, and possibly causing additional flooding. Lighter rains (4-20 mm) caused only minor wheat planting delays across La Pampa and western Buenos Aires. Weekly temperatures averaged near normal across central Argentina. Northern Buenos Aires received heavy rains during early and mid-April and early May, causing widespread flooding, especially along the Salado River. The above- to much-above normal rain delayed soybean harvesting, caused some soybean yield losses, and lowered seed quality. However, the majority of soybeans are grown in southern Santa Fe, where excessive moisture was less of a problem. Above-normal May rains delayed wheat planting across southern Buenos Aires. In southern Brazil, scattered showers (8-35 mm) favored vegetative winter wheat in Parana and Santa Catarina. In Sao Paulo, mostly dry weather allowed coffee, citrus, and sugarcane harvesting to progress. During May, near- to above-normal rainfall was reported from Sao Paulo southward, causing minor harvesting delays especially late in the month. Across Mato Grosso do Sul, Mato Grosso, and Minas Gerais, below-normal May rainfall allowed harvesting to progress rapidly.

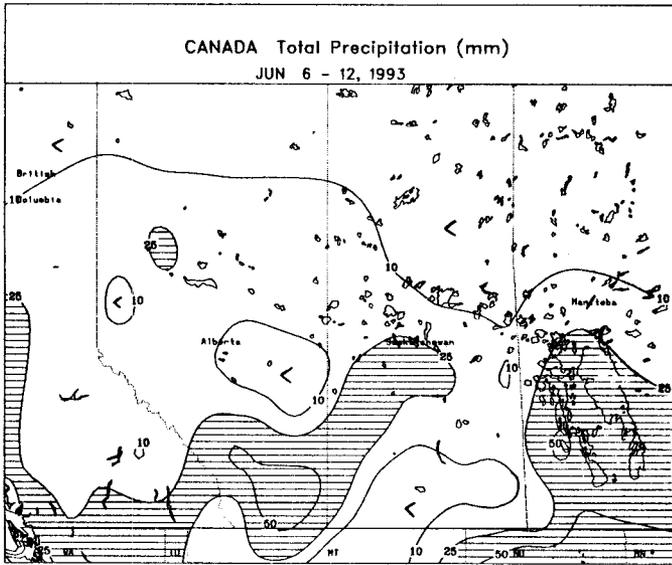


MEXICO: Widespread moderate showers (10-70 mm) fell across the southern Plateau corn belt, benefiting germinating corn. These showers signal the onset of the seasonal rains, which have been delayed, especially across the western corn belt. During May, only the northeast, east coast, and the Yucatan peninsula received near- to above-normal rainfall. Below-normal rainfall prevailed elsewhere, especially across the central and western corn belt.

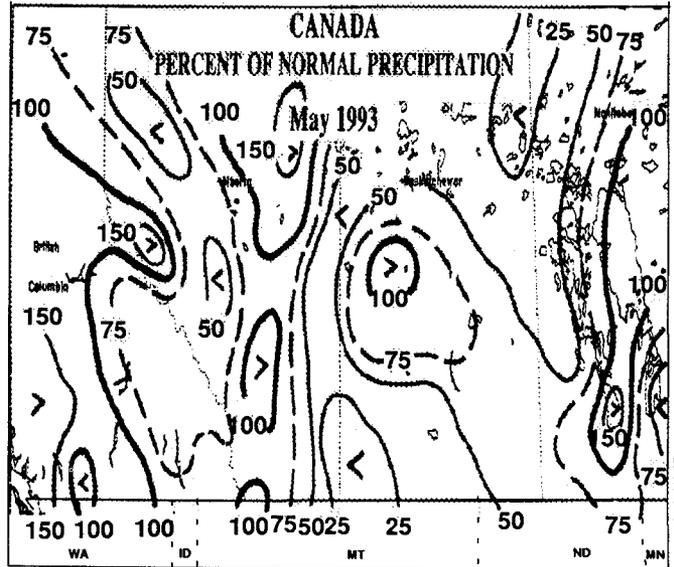
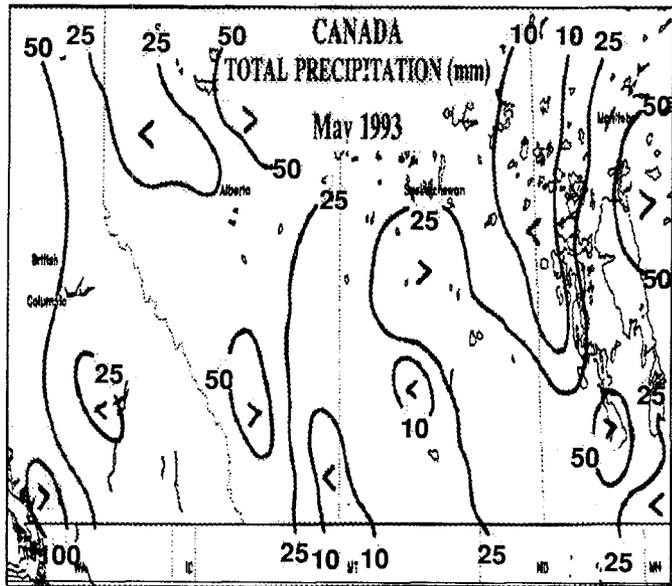


MEXICO - WESTERN CORN BELT
CUMULATIVE WEEKLY PRECIPITATION

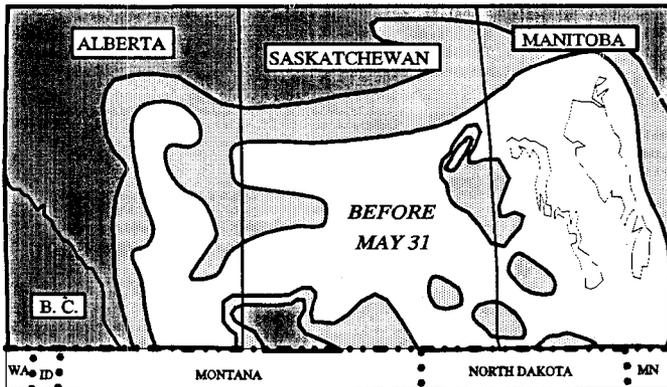




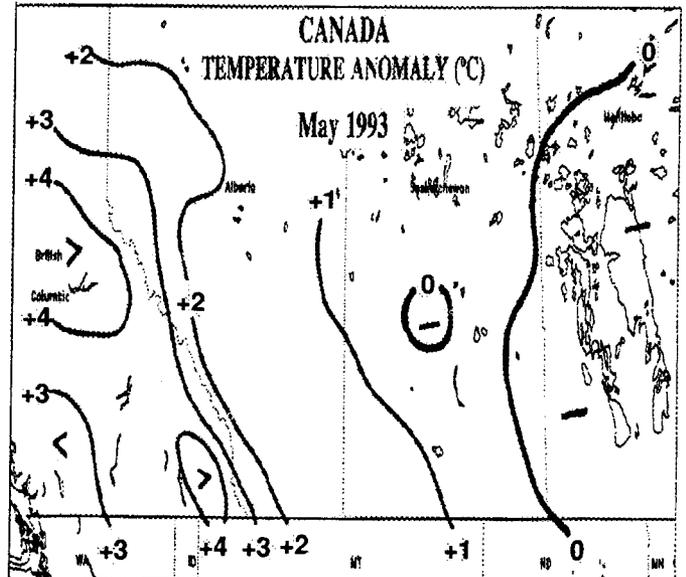
CANADA: A moisture-laden Pacific storm moved across the Prairies, bringing much-needed rain for spring crop germination and establishment. Heaviest rain (20-60 mm) covered southern Alberta, northwestern Saskatchewan, and most of Manitoba. Temperatures averaged near to above normal but frost lingered in northern sections of Manitoba and Saskatchewan, delaying crop development. By mid-June, most Prairie crop areas should have experienced their last spring frost. Further east, warm, wet weather benefited Ontario's developing winter wheat and improved corn planting prospects. During May, drier-than-normal weather dominated the Prairies for much of the month, reducing moisture in most areas for grain and oilseed establishment. May temperatures averaged near to above normal, but unseasonably cool weather the latter half of the month inhibited germination and necessitated local canola replanting. A similar pattern in Ontario delayed winter wheat development, but soil moisture is adequate for early wheat growth.



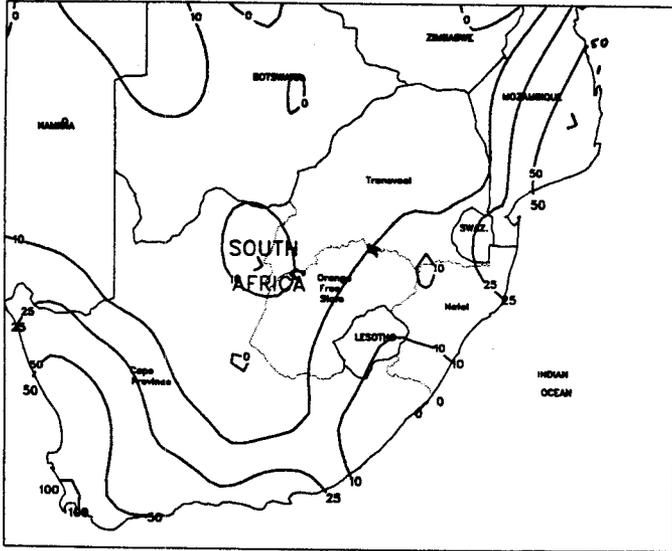
CANADIAN PRAIRIES
AVERAGE DATE OF LAST SPRING FREEZE (0 Deg C)



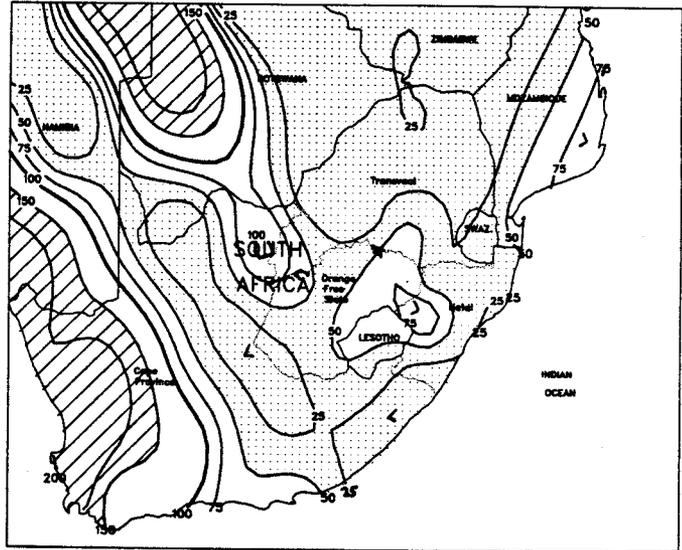
May 31 to June 10 After June 10



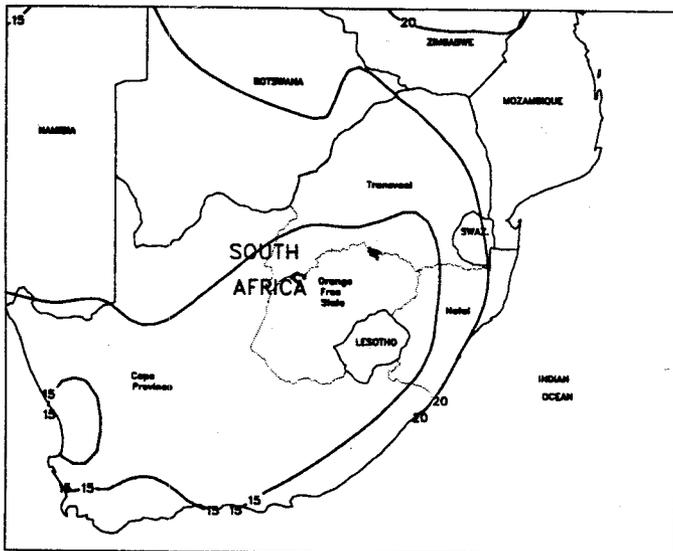
SOUTH AFRICA...TOTAL PRECIPITATION (mm)
MAY 1993



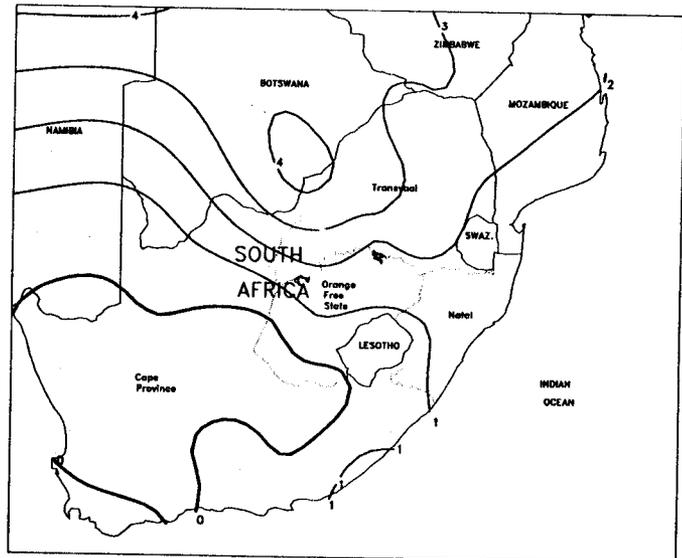
SOUTH AFRICA...PERCENT OF NORMAL PRECIPITATION
MAY 1993



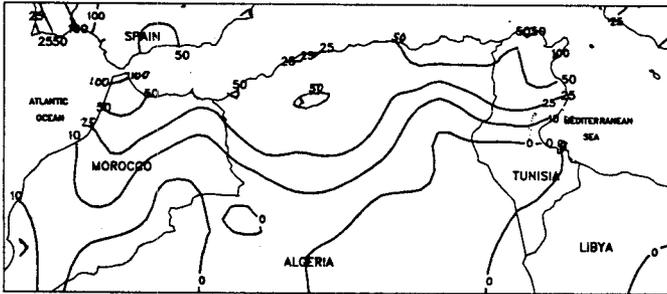
SOUTH AFRICA...AVERAGE TEMPERATURE (°C)
MAY 1993



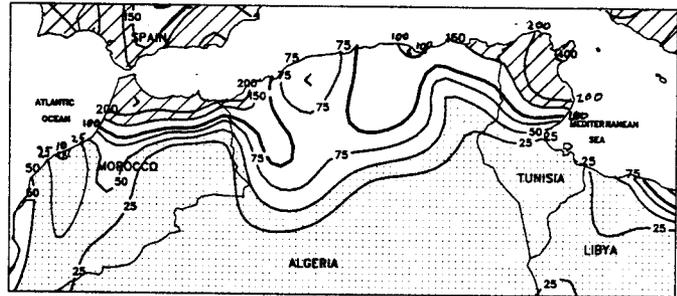
SOUTH AFRICA...TEMPERATURE ANOMALY (°C)
MAY 1993



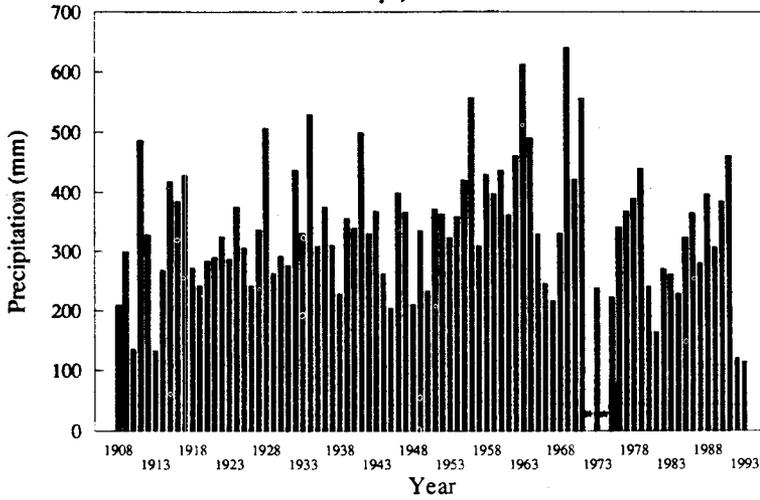
NORTHWEST AFRICA...TOTAL PRECIPITATION (mm)
MAY 1993



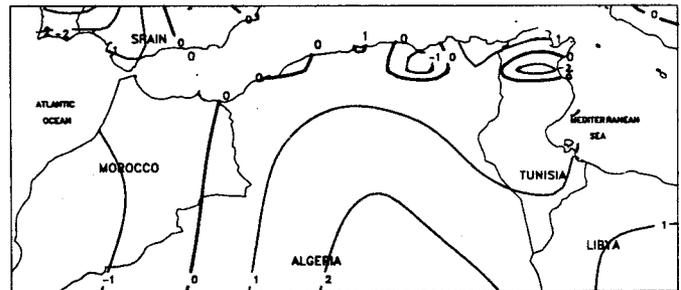
NORTHWEST AFRICA...PERCENT OF NORMAL PRECIPITATION
MAY 1993



Casablanca Precipitation
Nov - Apr, 1908 - 1993



NORTHWEST AFRICA...TEMPERATURE ANOMALY (°C)
MAY 1993



* MISSING

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(Continued from front cover)

alone, 47 tornadoes were spotted in the upper Midwest, 18 of which touched down in Wisconsin. A day earlier, more than a dozen tornadoes ripped through South Dakota. Meanwhile, oppressive heat gripped the Southeast, damaging crops that were already stressed by dryness. In Georgia, 45 percent of the corn rated very poor or poor, an increase from 11 percent a week ago. At week's end, nearly one-fifth of Georgia's corn crop was in the heat-sensitive silking and tasseling stage. Augusta, GA shattered five consecutive daily record highs with a reading of 99°F on Monday, and maxima of 102°F or higher on each of the next 4 days. An approaching cold front brought scattered rainfall and cooler weather on Friday night from the eastern Carolinas to northeastern Florida. Late in the week, a new storm traversed the Pacific Northwest. Far in advance of the system, heavy rains caused local flooding from the lower Ohio Valley to the western Gulf Coast States. But in Montana, 8 inches of snow accumulated in Glacier National Park at 6,646-foot Logan Pass. On Saturday evening, intense thunderstorms dumped as much as 6 inches of rain in northwestern Iowa, causing many streams and rivers to overflow.

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